A-NEW

DISCOURSE

OF THE

SMALLPOX,

MALIGNANT FEVERS,

With an exact Discovery of the

SCORVEY.

The Nature, Manifold Differences, various Causes, Signs, Prognostics, Chronology, and several Methods of Curing the faid DISE ASE, by Remedies both Galenical and Chymical; together with Anatomical Observations and Discourses on Convulsions, Palsies, Apoplexies, Rheumatisms, and Gouts, with their several Methods of Cure and Remedies. Likewise particular Observations on most of the fore-mentioned Diseases.

By GIDEON HARVET, M.D.

Physician in Ordinary to His Majesty, and in the Time of die Rebellion, Fellow of the Gollege of Physicians at the Hagne

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ADVERTISEMENT.

The Conclave of Physicians, detecting their Intrigues, Frauds, and Plots, against their Patients. Also a peculiar Discourse of the Jesuits Bark: The History thereof, with its true Use, and Abuse. Moreover, A Narrative of an eminent Case in Physick. By Gideon Harvey, M. D. Physician in Ordinary to His Majesty. Sold by James Partridge, at the Post-House between Charing-Cross and White-Hall, MDCLXXXIII.

There are Errata; as Literals, viz. Acida with an s. inflead of c. &c. and some few others, which the Reader may easily amend.



TO THE MOST

MIGHTY.

AND MOST

INVINCIBLE MONARCH,

Charles II.

KING of Great BRITAIN, France, and Ireland.

for many Years been Afflitted with Maniaes, and Fascinated Diftempers of their Minds, in a moment You miraculously Cured them upon Your Blessed Restauration; a good Criss, whereof not the Influence of the Stars, but of Divine Providence was the Primar Efficient. The Diseases of their Estates were no less Great and Dangerous; some had Lost all, others had Little left; to these likewise Your Unparallel Justice was a Soveraign remedy, by Relation

The Epistle Dedicatory.

storing to every one what was his Just Right. Moreover, That their Lives might be Praferved from the pernicions Attempts of Empirics, You have encouraged Learned and Experienced Physicians, and to these Your Royal Laboratory sheweth out of what Materials, and in what Manner the best Remedies are to be Prapared; So, as You are the Greatest KING, You are the greatest Phyfician, whence I have prasumed to lay this Treatise at the Feet of Your most Gracious Majesty, humbly craving Your Protection. against the Scorvey of this Age, and imploring Your Royal Clemency for a Pardon for this Address, am in all Duty bound to ucknowledge my felf,

The most Humble,

most Obedient, and

Meanost of Your Ma-

jefties Subjects,

DISEASE OF LONDON.

CHAP. I.

Containing a Premissory Discourse of the Scorvey.

Will not resume, what by others hath so oft been chaw'd upon, and that take for a reafon, if I do not tell you a Story out of Engalen, Solomon Albertus, or Wierus, a sort of people, that from one another re-coilected a most prodigal number of Sorbutick Symptoms, by the same Rule of Arithmetical Progression, Galen made use of in mustering his Centuries of Pulses, an impertinent variety, more imaginary, than perceptible by the subtillest Aranean Tact. By what I here condemn, you may conjecture, I pretend to divulge something particular, in such terms, as fhall

shall as little tire you in the reading, as me in writing. To commence my Discourse from the Description of my Subject, seemeth most expedient, wherein an exactness ought to be aimed at, exceeding what hitherto hath been heeded, which may oblige such, as when meeting with a Distemper, they are not well acquainted with, are compelled to tell the Patient it is the Scorvey.

§ 2. Scorbutus and Scorvey (quafi Scorbey) are words baftardized from Scorbeck, a Westphalian Primitive, denoting a Hoarse Throat, probably a Symptom, that antiently attended that Disease, and in these days is now and then observed a Concomitant, especially among the Danes, where it passed by the name of Schermund; who moreover being oft rack'd with tearing pains in their legs, gave them the name of Schorbein, or Tear-leg. By the way, I must here take notice of a vulgar error, in the Orthography of the word Scurvey, which ought to be written Scorvey, as being derived from the word Scorbeck. The Low-Durch discerning, it oft exercifeth its fury on the Guts, by caufing infufferable Gripes, chuse to call it Scheurbuyck or Tearbelly; also de Blame Shuit, from those blew spots, that haunt Scorbutick Legs. From the slink of Breath and foulness of the Gums, the Italians name it La Marcia di Bocca, or Scornobocca, implying a corruption of the Mouth. But if it be proper to derive the Denomination of a Difease from its chief Symptoms, the word Gingipedium (crassa & pingui Minerva) expresseth its nature more amply, declaring it most incommodious (gingivis & pedibus) to the Gums and Legs; and it may be conjectured, this kind of Nomenclature was twifted sogether out of those two Antick words latinized

nized souaxann and σκελοπίρθη, the former denoting a foulness of mouth, from sound @ nania; or a foul mouth from some naxor, the latter being expounded a Disease of the Legs, as may be inferred from Pliny Hiftor. Natur. lib. 35. cap. 3. In Germania trans Rhenum castris à Germanico Casara promotis, maritimo tractu fons erat aque dulcis folus, qua pota intra biennium dentes deciderent, compagefque in genibus folverentur, flomacacen Medici vecabant, & Scelotyrben : i. e. The Campagne being removed by Germanicus Cafar to the other fide of the Rhyne in Germany, there was only one Fountain of sweet water, in a tract near the Sea, whereof drinking, in two years time their teeth would fall out, and the composure of their knees would be quite relaxed; the Physicians called it Stomacace and Scelatyrbe.

6 2. The use of these words seemeth to be of a far ancienter date than Pliny's age, fince Strabo a Subject of Augustus Casar, in the Sixth Book of his Geography, about the end, relates the Roman Army, that was transported into Arabia, to be infested with a Disease called Stomagage and Scelotyrbe. Galen also in that Book de Definitionibus Medicis, makes menrion of a Scelotyrbe. But not only, whether those Maladies implied by these two obsolere words, but whether those great Spleens deferibed by Hippocrates de Morbis Intern. 2. Pred. 2. Prognost. the Black Jaundice, the Ileos Hamitites, or the Black Vitiligo (being a deformity of the Skin, haunted with large duskish spots) be not the same Disease Modern Physitians term the Scorery, hath been concroverted by most, that have handled this Subject. That each of these have a resemblance in their Causes and Symptoms to the Scorvey.

Scorvey, needs no debate; for according to Hippocrates in the precedent Citation, in those great Spleens, The Belly is puffed up, afterward the Spleen doth alfo fwell, and is hard, and acute pains happen to the Spleen, the colour is also changed and loobs black, pale, and like a Pomegranate fell; and an ill smell cometh out of their mouth, and the gums scent ill and separate from the teeth; and on the legs there break out Olcers, alfo nocturnal Puftuls; and the parts are extenuated, and their ordure is not evacuated. The Ilios Hamatites is also decipher'd with features not unlike the former: The Difeafe, faith Hippocrates, beginneth about the Autumn, and therein thefe things happen: There cometh an ill fcent out of the mouth from the teeth, and the gums separate from them; and blood floweth out of the nostrils; and Sometimes Ulcers break out on their legs, and other things appear, and the colour groweth black, and the Skin thin. The curiofity predominating so much among Authors, touching the identity of primæval and subsequent Discases, might be construed very fuperfluous; for the refult, whether it be fo or not, contributeth no more light to the scrutiny of the Scorvey, than a Candle to the Sun at Noon-day; though perchance exercitii gratia, and for reputation of being versed in Antick Lectures, it may be permitted to be ventilated. The opinion of the major part of the Learned, infers from the near alliance of Symptoms, the Great Spleens, of Hippocrates to be the Scorvey; and some others by the same reason are convinced, the Black Jaundice, the Ileos Hematites and Black Vitiligo, are no other. If this inference be received, Hypochondriack Melancholy, Hyfterick Paffion, Quartan Ague, and most other Splenetick Maladies, may be reduced as Species to the Gender of the Scorvey.

Scorvey. But upon a strict survey your astimate will conclude, that the distinction of Diseases dorh. not depend fo much on common accidents, as properties; or to speak physically, on Pathognomonies, derived from a Specifick qualification, in their Caules, Parts affected, and Symptoms. Thus the proegumenal cause of the Scorvey, though it's vulgarly attributed to Melancholy, or rather Salir vitiated or degenerated to a præternatural, and in that qualification may be a common parent to this, the Great Spleens, Black Jaundice, and the reft; vet the more, nice infinuation of others hath deteded the Salts of the Blood fo specifically receded from their natural Constitution in the Scorvey. and to have indued fuch peregrine qualifies, that they are not capable to give birth to any other Difease than this. Moreover, by most the part affected and hearth of the praalleged diftempers, are determined unically the Spleen; in the Scorvey the Stomach (by some the Pancreas) the Spleen and Liver; and some do also accuse the brain, though per duteropathiam. Symptoms the difference is most perspicuous, the exufflation of the Spleen is not always discovered in the Scorvey, though in great Spleens never abfent: In the Ileos Hematites there is loss of blood by Stool, attended with tearing Gripes; which in this diftemper is not affumed for a Pathognomonic The Scorvey, is particularly malignant, because it is contagious, and to radicated, that for fonie months, and frequently years, it doth prædominate over the most potent of Medicines; and Infants oft bringing Scorbutick Seminaries with them into the world, speak it hæreditary; insomuch that on some Families the Scorvey hath been intailed with their Estates. These Prædicates certainly are DOE :

not convertible with the fore-mentioned Diseases, and therefore ought not so rashly to be pronounced the Scorvey; which moreover is Endemick, the others Epidemick and Pandemick. Thus far no sensible error can be incurred, if upon comprise of the whole, these Diseases are conceded to be Scorbuick, in the same terms, as one may aptly explain a Pleurisie, an Empiema, an inveterate Cough, and many other Pulmonic Diseases, Asbmatic, but not an Ashma; unless derived from Saline Scorbutick Procatarstic and Progumenal Causes.

S. 4. The Scorvey, in respect of its primar appearance, feems to bear no certainty in Chronology, fince some describe it a distemper, that for fome Ages hath harraffed the crazy inhabitants of the world; others will not allow it a Disease of longer date, than Authors of the laft Century record its first budding among the Danes, Saxons, and Westphalians; which is within the time of Two hundred years at most. This latter sentiment is eafily supported by this Argument ; viz. No Disease described by any of the Greek, Latine, or Arabian Physicians, doth exactly quadrate in Parts affected, Caules, and Symptoms with this Northern Scorvey; and therefore may be inferred a new up-start Disease: especially that fort of Scorvey, which in my Little Venus I term Epidemick. Probably an objection may be offered, that fince those Procatartick, and Proegumenal Causes; had their being many Ages paft, and consequently an influence on humane Bodies, they must necessarily (according to that trite Axiome, Polita caula ponitur effectus) have constituted their effect, viz. the Scorvey. To this is replied, Hiftory maketh no report of those occasions, that are impower-

powered to produce this Malady. The Græcians, among whom those great Spleens of Hippocrates, being nearest of kin to the Scorvey, were so popurlar, lived in a benign air, and were constantly imployed in Warlike Exercises, whereby they were diverted from Melancholy, or other dull Passions, from Excels of Sleep or Sloath, and other incon-veniences: so that those External Causes that now concur in the production of the Scorvey, had no pravalence on them; and therefore improbable, our Diftemper should have been ingendered then, or any time before. But waving other Causes, and confidering only, it is an Endemick Difease, which hath its chief dependance on the Air, and particular disposition of the Clime, wherein alterations happen by evaporations from Sea or Earth, and Coeleftiall Irradiations, which being fo various and frequent, it's no wonder, if the Scorvey be a recent production, or if every month or year Difcases of new aspects emerge.

CHAP. II.

Of the Mouth-Scorvey.

Nto two great branches the Scorvey seems to be divaricated, namely a foul Scorbutick Mouth, or rather the Mouth-Scorvey, and Scorbutick Legs, or Leg-Scorvey; to which very aptly a third may be added, to wit the Joynt-Scorvey. The former confifts of Swelled, Laxe, Spungy, Discoloured, fore Gums, loose Teeth, that in process of time do inevitably rot or cariate, and a stinking Breath ; BA which

which as they afcend through various degrees to an extremity, do render the disease very incommodious, having observed the tumefaction of the Gums in some so luxuriant, as to obstruct the Lips in closing, appearing more like a Fungus grown to the law, then Gums; on the contrary in others the Gums have been intirely corroded away, fo as the yougooss, or juncture of the Teeth, and Taw, might have been evidently discerned; and you may receive it for a truth, that the corrofion was continuated with that rapid violence, in the Lips of a certain Scorbutick Dutchman, who for cure was admitted into the Hospital, at Leyden, that being quite devoured, the Teeth were left bare, and exposed to the Air : wherefore note, that the first degree of a foul or putrid Mouth is a swelling of the Gums, through a thin serous or schorous blood, soon after disposed to be presfed out of its bounds, with the least touch of a Finger, infomuch that it's frequently observed, that Scorbuticks biting a piece of bread, the remainder in their hands will appear all bloody about the edges: Hereupon the Gums fissure or cleave, afterwards changing phagedænick Utcers, which not feldom fucceeded by malignant cancerous Ulcers, threatning an extream deformity and devoration of all the circumizcent parts.

§. 2. More than once I have given advice for for little hard unæqual swellings about the inside of the Lips, sometimes under the Tongue, of a livid, or not infrequently of an ash colour and dolorous. These by Chyrurgions are termed Cancers of the Mouth, and indeed are little less than Cancerous, and consequently Scorbutick. Neither would

would I have you judge it a Paradox, if I affert an Endemic Cancer in whatfoever part, to be an extream degree of a Scorvey; as hereafter may be more plainly repræsented. Of the nature of the p 23 miled Cancers in the Mouth, doth participate a Ragula, a Tubercle under the Tongue, fo called, because being an impediment to the free motion of the Tongue, in pronouncing words that contain the Liquids L or R, it occasions them to found frog-like. The Cure hereof is usually attempted by Astringents and Acids, as Oyl of Virriol and others, whence feldom or never a fuccess being answered to the intention of the Chyrurgion, converts his hopes to the sharp Steel, or the Fire. But were it supposed fcorbutick, as many other figns accompanying, do certainly evince it to be, might infallibly perform the Cure by a scorbutick Topick.

- § 3. A vagous recurrent Tooth ach, especially in Women, doth often act a part in the Syndrome of a Mouth-Scorvey, which in distinction to the ordinary Tooth ach, hath concomitant a very grating pain, with a violent salivation of thin saline Rheum; and as it is that, which for Cure hath been an Opprobrium Medicorum, for their frustraneous applications, so the most facile and indubious method of solaging this pain by Antiscorbuticks, is an argument, there hath been a Hallucination, in discorning the true cause of it.
- S. 4. Grandines, or little whitish hard swellings, of the bigness of a Radish seed, with a small perforation in the middle, and running about the Tongue, Gums, Palate, and inside of the Cheeks, is a Scorbutick Thrush, and cured only by Antiscorbuticks. And those that have been curious observers in their

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practice, can attest, there is a periodical swelling of the Tonfils (or Almonds under the Ears) and a relaxarion of the Vulka and Palat, which must be accounted amongst the Diagnosticks of a Mouth-Scorver; and fuch being render'd infinitly worse, by the use of ordinary aftringents, I have cured with a Gargarism of Betony, Sage and Scorvey-grafs , Elder and Rosemary-flowers, and Nettle seeds, boyl'd in white Wine and Water, with a few drops of spirit of Sal-armoniac, inftilled into the decoction; but not without affiftance of internal Medicines.

- 5 s. The discoloration of the Gums in a Scorbutick Mouth first appears in a deep red, afterwards in a spotted vellow, then duskish and leadish, and ar last a cadaverous pale, or a cancerous black. The Veins about the Gums, under the Tongue, and the infide of the Lips, shew unequal, swell'd and ill colour'd. The foreness of the Gums feels sometimes burning, or as if prick'd with Needles; other times the pain lies deep about the Perioftium, or Membrane of the law, not unlike the Tooth ach.
- 6. Among the Pathogonomonics of a Mouth-Scorvey, none is more certainly concomitant than a Stinking Breath; infomuch that it is beyond all contradiction, where there is a continual stink of Breath, (evident causes, as Ulcers of the Mouth, Throat and Lungs always excepted) there is a confirmed, or at least a growing Scorvey : and among all those Scorbuticks I ever was concerned with in relation to their cure, I never found that symptom absent; which if by the course of some years it be established in a deep radication, is refractory to all cure; if recent, all hope is reposed in a friet Scorbutic method. And for this fo ungrate-

ful fymptom, the sole Specifick is the Urinous Spi, rit of Sal Armoniach. Now upon the Assumption that the Scorvey is an Endemich Malady to our Island, you must suppose a stinking Breath very popular, which indeed will not be disputed by one, that possesses the right use of his Nose; and those that are exquisitely sensible in that Organ, shall tell you, that the Cabins of Ships expire a stronger Air of Scorbutick stinking Breaths, than of Pitch or Tar.

5. 7. This Chapter we will limit with the subnexion of another Scorburick Symptom, not much receding from a stinking Breath, viz. Figures in the Angles of the Mouth, and root of the Gums, which being squeezed three or four times a day, render a very putrid matter, the spring whereof is ordinarily deprehended in a Scorbutick small Glandul.

CHAP. III.

Of the Leg-Scorvey.

S. I. The Scorvey particularly exerting its enmity on parts so distant as the Mouth and Legs, speaks it a Disease, requiring a more distinct Consideration; and therefore as in the former, so in this latter is designed to give you a very articulate Description: but observe by the way that a lassitude and seebleness of the knees is common also to a Mouth-Scorvey.

The Leg-Scorvey comprehends a great lassifunde and weakness of the Knees and Ankles, spots and blotch &

12 The Difease of London, or

blotches of several figures and colours on the Shins, and particularly just below the Knee, and also near the Ankles, Pussuls, uneven Tumors and Tubercles of Purpre Variegated Red. Oedematous Legs, with thick, hard, callous, livid, or sometimes brown red Skin about the Ancle, ulcers on the Shin, and near the Ankle, pains of the Knees, likewise deep pains along the Shin-bone, continuing all day, but raging most in the night, are all frequent concomitants of the Leg-Scorvey.

- S. 2. The feebleness of the Knees and Ankles coming gradually upon you, without any evident præceding Disease, or any sudden alteration of looks, or habit of body; is an Item sufficient to inform you what's at hand: Namely, Spots first red, and then yellow, livid, and at last of an ash colour; upon this expect blotches along the fide of your Legs, appearing first reddish, then yellowish very like an Eryfipelas, but yet different from it, because there is not that heat and smart in Scorbutick blotches; neither are they fo fiery, or corroding, as to be converted immediately into ulcers, but grow rough and peel off. These generally are succeeded by puftles, turbercles, or botches and tumors; at first of an uncertain colour, in one part deep red, in another pale; though upon a small interval of time turn deep red all over, growing exceeding painful and hot, a fign of their being ready to burft out into Ulcers, or nafty Scabs.
- 5. 3. Scorbutick ulcers, especially those on the Shins, and near the Ancle, upon a short continuance grow callous about the Lips, within painful, as if prick'd with Needles; their sless appearing torm, uneven, of an ill aspect, the Lips turnid, the mat-

ter undigested thin, and ichorous, at length turns sordid, phagedænic, and cancerous; the bone underneath contracts a Caries or Spina Ventosa.

- § 4. Scorbutic Leg-pains, either haunt the Tendons about the Knee and Ancle, or the Membranes of the Muscles, or the Periostium. A Tendinous pain, is a shrinking or contracting soreness; that of the Membranes of the Muscles sharp and distending, that of the Periostium contunding and grating.
- 5. To these add a Varicous Leg, when the Veins are Tumesied to an extraordinary Protuberance. The Effect of all these præmised Symptoms doth for the most part Result into Gross, Deformed, Tumesied Legs, some appearing sull of Botches, others Tumesied, so as to pit upon the pressure of a Finger, and variously Discolour'd all over, like the Shins of those, that sit too near the Fire in the winter; such Monstrously Tumesied Legs are frequently observed amongst Dutch Skippers.

CHAP. IV.

Of the Joynt-Scorvey.

S. I. That they are incommoded with an Univerfal Soreness of Limbs, especially Arms, Shoulders, Neck-bones, and along down their Back, about the Brest, and round the Middle, with a Lassitude, or Weariness, and no Disposition at all to stir or move, but inclined to Drowsiness and Heaviness, is the Complaint of many, upon the least alteration teration of Weather, who beyond all (peradventure) must be termed troubled with the faynt-Scorver; provided the faid Laffitude be not such, as ordinarily is a præcurfor to a Fevor. Neither is this Species, or fort of Scorvey only circumscribed with the prænumerated symptoms, but is also applicable to those, whose Articles or Joynts are subject to Crackle upon a sudden motion.

6. 2. The Scorvey infesting the Joynts, doth by means of an Afflux of Virulent Humors, not seldom produce groß Tumors or Tubercles, of a fiery purple appearance, and a very painful Sensation, to which is confequent an Immobility of the Articles, and not long after the Skin being fo Canceroufly tumefied, as frequently happens about the Joynts of the Fingers, Knuckles, Wrifts, Elbows, Knees, Ankles and Toes, is perforated by an Isthorous, Raw, Indigefted, Thin, Serous, Livid, and sometimes yellow Sanies or Matter, which Gleeting through a small Orifice, that soon grows Callous, and therefore not being totally and freely Evacuated, occasions the Bone to Cariate, which commonly by Exfoliation, or rather Corrofion, Nature doth expel in little shatter'd mouldering splinters. The impure Nutriment the Conception assumeth in the Womb, rendreth children more subject to this kind of Scorvey, than others of Riper years, and is vulgarly filled the Joynt-Evil, and some will know it by no other Namethan the Kings evil, which properly denotes only Scrophulous and Strumatick Kernels and Tumors, though beyond all fcruple are of the same Production with the former, and confequently highly Scorbutick. Neither are a Fifiula Lachrymalis, and other malignant Issues near the Angles of the Eyes, or those spiphora's, or running

A New Discovery of the Scorvey. 15 of the Eyes, different in Causality and Constitution from either of the fore-mentioned.

- 6 2. Another fort of Joynt-Scorvey is specified in Rheumatifins, which generally declare themselves by pains of the Joynts, or rather in some by Tortures of the extream Articles, as Writts, Knuckles, Joynts of the Fingers, Elbows, Shoulders, Hips. Knees, Ancles, Toes, and worst of all, when the impetuous flood of Salin Rheum streams to the Neck, and Back-bone. (Spina Cervicis & dorfi.) Pains of this Nature are fo Violent, that for Acuteness are not parallel'd by ordinary Gout-pains. like manner this fort of Rheumarism doth oft rudely afflict the fides of the Head, decurring from the Breema, to the upper and lower Mandibles, and Roots of the Teeth, shooting like Darts from one part of the Head to the other, and with fo quick a Perculfive motion, that Lightning and Blafts feem flow to it.
- 5 4. Practical Observations declare to us a twofold Rheumatism, External and Internal. The former is just now præmised: the latter is discovered by Internal, Acute, Fugitive pains, moving Erratically from one Bowel to another, thence possibly to the Guts, and thence again it may be to the Ambient Skin, or to some other Bowel, or the Breft; the quality of these Internal pains, is for suddain and violent Motion, refembling External Rheumatisms; and for Acureness, forceth the Patient to scriech out, lamenting his pain, now in one place, prefently after in another, and suddenly again in another, to no small Amazement of his Vifiters; fince for a small interval being free from pain, feeling himfelf very well. and entertaining his Friends with Discourse, on a fuddato

16. The Difease of London, or

fuddain a shooting pain shall take him, and alter the Scene to a contrary Disposition. Internal Rheumatisms are generally of a tædious continuation, though the pains are far more brisk at one time than another, and sometimes do make a Truce with the Patient for a sew Days or sometimes Weeks, but in the interim detain him in a neuter Estate, which can be determined neither well nor ill, but weak; and thus I have heard of several, whose Recovery was scarce accomplish in several Years; but that might partly be imputed to the ill address of the Physician, being unskil'd in managing that Disease.

6 s. Among divers Joynt-Scorbuticks, it hath been Remarked, their Bones have been very Frangible, that upon very small occasions, they have had the misfortune of breaking their Legs, Arms, Bones of the Hand, and Fingers; but before this can arrive, another Symptom doth ever præcede, namely, a Cracking and Noise of the Joynts, when they are moved. It argues him much a stranger to Practice and Experience, that never observed an Arthritick or Gouty-Scorvey, being fuch a fort of Counter-natural affection, as befets the parts near the Joynts with Corefive Salin Ichors, and through them attaques them with very Lacerative and Terebrating pains, and fuch as commonly in the Night feason Duplicate their Fury. In this Disease, as it's Genuine distinction from other Gouts, would certainly very much conduce to the solacement of the Patient, and his compleat Recovery; so it would no less add to the reputation of the Physician, and therefore shall in their places amplify upon its Description, Caufes, Signs and Cure.

- 66. Two Bones being tied together, that place where they meet is properly termed the Joynt, from being joyned together, or Juncture, or Articulation. Physicians also stile it an Article, but improperly, the word Articulus importing a Diminutive of Artus, Latiniz'd from aplo, a Member. Moreover. Bones that are Diarthrotically joyned, are fastened together, besides particular Ligaments, by a common Ligament or Band growing usually from the lower part of the Apophyse of one Bone, and inserted into the upper part of the Apophyle of the other Bone. This common Ligament or band is in point of fubftance rough, thick, denfe and extensive, and by reason of its close Compacture, and immediate Adhasion and Circumvesture, doth refuse passage to all Arthritick humours, whence may be Deduced, the Gout is not properly to be termed a Joynt-difease; whereunto this Instance contributes an unquaftionable Evidence, that the Internal parts of the Joynt being Cartilaginous, and the Ambient parts Ligaments, are both insensible and incapable of Senfation: fo that we must conclude the Univerfal Sentiment upon this particular a vulgar Error, growing from an Inadvertency and blind Ignorance in Anatomy.
- § 7. We are therefore to flate the Parts nearest adjacent (above or below) to the Joynt, the seat of the Gout, which by reason of the termination of the Tendons, and Circumvesture of the Periosium, are exquisitely sensible, and exposed to the greatest Tortures.
- § 8. The Joynts that are most commonly haunted by the Gout, are the Hip, where it's called the Sciatica, or Hip-Gout, the Knees, where it's termed

med the Kuee-Gout, or Gonagra; the Feet, which comprehends also the Ancles, and here it's named the Podagra, or Foot-Gout; and the Hands, including also the Wrists, thence called chiragra, or Hand-Gout. Besides these, most other Joynts, as Shoulders, Elbow, and Back and Neck-bones, are fometimes also attacqued by those furious pains. Why these last recited Junctures are not so much exposed to Gout pains, as the former, is, because being wrapt about with fleshly Tendons, and Mufcles, receive thence a great affiftance of hear and warmth, whereby the temperament of those parts are much comforted, the External cold refifted, and those Saline Acrimonious Ichors soon diffipated.

The periodical Revolutions of these Arthritick Scorveys, are an argument to me, they are subject to a Prædominance of both the Luminaries: For from the featons produced by the Suns Peragration, they are refuscitated Spring and Fall; and the Lysar Circuits occasion their appearance, and return in many bodies as ordinarily, as the monthly Maladies of Women, scarce any Sex or Age under Twelve or Fourteen, being exempted from the fore-mentioned Arthritick Scorvey; but it's otherwise in the Gout, which ordinarily rather invades the Crazie

bodies of super-annuated persons.

In contradiffinction to an Arthritick Scorvey, that's fixt to a part, viz. To the Hip, Knee, or Foot, as hath been just now præliminated; there is also observed an Arthritis vaga, or fugitive Arthritick Scorvey; but this being not different from an External Rheumatism, whereof hath been mentioned before, shall supersede any further Explanation.

It will hardly escape the Animadversion of many Perufers, that I have beyond the fentiment of other Physicians, reduced the præternatural affections

treated

treated of here in this Chapter, within the Latitude of the Scorvey. Wherefore that I may not deferve a finister Censure, I will offer those arguments, that to me were sufficient Motives, which if to others they seem less persuasive, I need only tell them, I may with as much right range them in the Train of the Scorvey, as Eugalen, Solomon Albertus, wierus, and twenty more have given place to half the known symptoms of the Diseased body of Man, in the List of Scorbatick Attendants.

Touching the infertion of the Scorbutick Laffitude in the first Article, all Authors that have treated on the Scorvey, have granted that symptom almost so universal as to be a Pathognomonick inse-

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In relation to that of the second Article, most may find difficulty, to Identifie it with the Scorver, fince it's not easie to discern one and the same Discase, to be the same in two or more several Patients; much less a Discase that's so various and multiform, featured with several shapes and signatures in several subjects: Wherefore I must be obliged to a recital of certain marks, and received rules, whereby Authors do either Diversise or Identifie Discases.

Causes of the same Nature and Efficiency, though Univocal, do not alwayes produce the same Effects, and therefore consequently (though two or more Diseases are engendered by the same efficients, and out of the same matter) they may be different Diseases, whence may be objected, that those Joynt-Diseases, though issuing from the same Gauses the Scorvey is derived from, it's no argument they should be termed the Scorvey. By this Assertion, the Peripatetick Maxim seems to be suspected, viz. Posita causa, ponitur effectus; ergo posita causa Scorbutica, ponuntur effectus Scorbutici: And all Diseases that

that are produced by a Scorbutick cause, must be

the Scorvey.

You must observe the truth of this Theorem doth depend upon certain Limitations, namely, a cause to be qualified to produce the same Effects, must be Univocal, and à causa per se; for otherwise (though granted Univocal) its casuality may be per accidens depravated, and Occasioned to an Aberrancy by other causes: For inflance in the Scorvey. imagine it's Production from a corrupt Melancholy, that may Stagnate in the Spleen, which being fuppoled in two feveral bodies; in the one polfibly it may conflirute Symptoms, that are commonly Concomitants of the Scorvey; in the other, because there may be a mixture of viriated Choler, or of a Serum affected with an ill Quality, or a great infirmiry of some Entrail; the aforesaid supposed Scorbutick cause shall be so Obtused, altered, or Indued with a different Efficiency, that the Diseases so produced, shall be no Scorvey, but some other Counter-natural affection. This may also very properly be exemplified in celeftial Causes, among which conceive a Planet in such a Sign, and such a Degree, by his influence to produce certain Effects, upon any supposed Sublunary body; as its return to the same Sign and Degree, possibly it shall not be a cause of the same Effects, because through the Radiations of other Firmamentary Lights, it's influence shall be directed and limited to another Effect much different: Whence having rendred the Ground of the Variation of Symptoms in the body of man obvious, my next affair is to propose a Theorem whereby Diseases are Identified.

Diseases are computed the same, that are constituted by the same Univocal Causes, not aberring further per accidens, than those symptoms that are

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effected per se, may in number and specification exceed those, that are produced per accidens. Moreover Diseases by their Intrinsick signification imply Parts primarily affected, whereof they are Diseases; and therefore Diseases cannot be Identified, unless the parts affected primarily be the same; which we must now explain to be the same in the Scorvey, and in the Joynt-Evil, and Gout-Scorvey. None vary from this Opinion, that the parts Primarily and Originally affected in the Scorvey, are all the chief parts of the Inferiour Cavity, that appertain to the Natural Faculty, whose office is to Consect the Chyle, Elaborate and Depurate the Blood, which are the Stomack, Spleen and Liver.

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The Chyle in those, that are afflicted with the Gout and Joynt-Evil, receiving a Malign Tincture and Impression, from an ill qualified Dissolvent, is a prægnant Evidence, the Stomack is a part affected; and the aforesaid Chyle upon its arrival within the Spleen and Liver, induing a quality of a Malignanter efficacy, expressly proves, both those Entrails æqually parts affected, and consequently the parts radically or primarily affected are the same.

Neither can I discern any difference in the Causes of both, residing in a corrupt Salt, fixt or volatil. It must then be the difference of symptoms, that creates suspicion of the Diversity between these Joynt Diseases, and the Scorvey, which as was intimated before, may be remarked in all Universal Diseases, varying in two or more Bodies, in several symptoms, and yet are deemed the same Disease: A continual acute Beaver (which I call an Universal Distemper, because its symptoms are Universal, and disturb all the parts of the Body in their several Functions) in one is attended with Vornitings, in the other with a Looseness, in a third with neither;

ther; which nevertheless, are known and determipated Concomitants of a continual acute Feaver in all. In this Labyrinth, the Position stated in the beginning of this Paragraph, conducts me to an Expedient of surpassing the difficulty, viz. The symp toms that Identifie Difeases, do immediately, and per fe, emanate from them, in or near the parts affected : For inftance, if the Heart be seized witha Discale, the Pulsarion doth generally express it, being a symptom that immediately consecutes the Diftemper in the part affected, which is the Heart; the like may be observed in all Diseases. must be such as properly are terms Pathagnomonich, and by Industry, and frequent Experience, may be difcerned in most Distempers, though symptoms that are occasioned per assidens are infinire, and common to many Discases. Now to our Affair; In the recited Foynt-Difeafes, and Gout Scorvey, the radical symptoms are an ill Confection of the Chyle, or a violated Elaboration or Depuration of the Chyme; a propagation of Malign Seminaries, in the Bowels and Blood, that renders Difenses contagious, havedirary and most abilinate; these being likewise symptoms in the Scorvey, I judge I have justly Identified them; but that will more amply appear in my subsequent Discourse. Add hereunto, that in Identified Discases, the Procatartick causes are the same, which in these various kinds of the Scorvey, is verified in a falin Air and Diet, whence both the Internal . Antecedent and Continent causes after wards take their Original, which also for a certain space continue the same, until that by a continuated morbifick Action and Calcination, they pals is to a contrary nature, from an Acid, to an Alcali, as among Chymical processes, oppears in Asid Tartar, which by Calcination makes a Transition into

an Alcalious Salt of Tartar; nevertheless as the Acid Salt of Tartar, and the Alcalious Salt of Tartar, though contrary, do both retain the same name of Salt of Tartar; so an Acid Scorvey, and an Alcalious Scorvey, retain the same Denomination of a Scorvey, or are Identified in the same Name. Before I limit this Chapter, I must propose an Argument of a greater Consequence, namely, That those Joynt-Diseases and Gont-Scorvey, are only to be removed by an Antiscorbutick course; but not such as is directed by the præscriptions of the Vulgar, who are as blind in these Distempers, as they commonly are in Feavers and Small Pox.

CHAP. V.

Of the Causes of the Mouth-Scorvey.

DY a scrutiny into some Procatartick and Occasional Causes, we may possibly be conducted into a Path, of discovering the Immediate and Continent causality of the Mouth Scorvey; and therefore converting our Observation on the Effects of the Spirit of Vitriol, Nitre, Vinegar, &c. We shall on the assimate of the use of any of them, mixt with Powders into Dentifrice, or Instilled into a Liquor for a Collution of the Mouth, award, they are as offensive as any Internal cause, by rotting and blacking the Teeth, raising Pain and Swelling in the Gums, and moving a thin Sputation.

§ 2. Mercury externally by Confriction forced into the Pores, or internally taken in the form of a subdued

Subdued Sublimate or Pracipitate, soon Ravages the Mouth, exactly like a Scorbutiek Cause, fince it forces up a Humor from within, that swells, fissures, Ulcers, pains the Gums and the Mouth, looseneth and rots the Teeth, salivates, and occasions a foul flink of Breath; all which symptoms, if we can demonstrate to take their rise from Effluviums issuing from an Acid Salt, Mercurial Preparations have all their dependance on, and which within their most intime and centrical Particles, do contain a most Subtile Vibrating and Volatil Salt, will result into a præmis, whence no Ingenious Reader, but with me, will conclude a Mouth Scorvey to be Engendred by a corrupt Acid Salt rendred fluid, and a Volatil Salt converted into corrofive, inordinate in motion, and united with a Fuliginous Salt. That you may be convinced of this Hypothetick proposition, take Inspection into the various processes of Mercurial Elaborations, where you find Mercury fixt (but very imperfectly) into Pracipitates, Sublimates, Spirits, and Salts, of divers shapes and colours, viz. Into White, Red and Yellow Pracipitates, by Aqua Fortis , Ispir. Nitr. Spir. Sal. Ol. Vitr. all which, take notice, are vehemently Acid; and thence conceive, that the Volaril Salt, or Fugitive Spirits, latent in Mercury, are only to be tied by an acid Vinculum. If upon this you defign to reduce Mercury (whether Pracipitate, or Sublimate, or any other Præparation) to its former shape of Quick-filver, it's eafily attained, by freeing it from that acid Vinculum, in mixing it with a proportion of Calx Viv. Gypsum, Soap-ashes, Sal Tartari, &c. and driving it through a Retort, whereunto it readily yields by means of those Alcalized, or fiery fixt Salts, mortifying the Acid. So that by the Rule of Contraries, if an Alcali reduces Mercury, the Consequence is, it was detained by an Acid. 6 3.

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§ 3. The Sequel is farther illustrated in the oraparation of Sublimate Corrofive, the Quick-filver being first grinded with Salt Peter, Vitriol, or Common Salt, wherein being latent a most potent Acid (as appears by their Reverberatory distillations) doih foon invade and penetrate the body of the Mercury, and thereupon encountring with it's most subtil and fugicive Minims, arrest, and in some degree doth fix them, qualifying their Volatil levity with its ponderous Acid, and therein it's discernably affisted by affusing a few drops of distilled Vinegar, or other Acid Spirit, whilft the Salts and Mercury are grinding together. Upon this mixture, that Salin Lixivious tafte of the Salts, before their Coalescence with the Mercury, is changed iuto a pontick Acid tafte. And because Therebenthine is so prægnant of an Acid spirit (as the Rectified spirit thereof to the Tongue, is a palpable proof) it's therefore the chief refine, that is capable of subduing Mercury, whereunto it's Lentour and Glutinous faculty doth very much contribute.

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§ 4. Hence let us make a nearer approach, to what is a branch of my subject, and necessarily conclude, that Spittle (Saliva) is endued with a Turgency of Acid Particles, far more potent, than sharp distilled Vinegar, because it's so essectual in Amortizing or Fixing Quick-silver, which may likewise be performed by the Acid juice of Limons: but observe likewise, that Spittle is rendred Acid, only towards the latter end of the Concostion of the stomack, from the Acour of the Dissolvent Liquor, and therefore the morning sasting-spittle is recommended for the purpose above mentioned. Moreover, take this remark with you, That the Spittle is imbued at several seasons with several Salts; some-

times with Volatil, other times with Lixivial falts, fometimes with Acid, and fometimes with mixt falts, according to the contents in the Capacity of the Stomack, and about its tunics; fo that all forts of spittle is not proper for the Amortizing of Mer-CBYY.

5 5. Now upon Compute of the whole matter, though your Reason may reap so much satisfaction, as to believe potent Acids, the fole subduers of Mercury, and capable of arrefting its Fugitive particles yet we must not be so facil, as to concede all Acids pernicious in the same Latitude with Mercury coagulated, of acting upon Liquours of the Body, and rendring them Scorbutick aggressors; for the greater number of Acids, administred with rules of Caution and Prudence, obtaining a virtue of repelling and suppressing some kind of Scorbutick symptoms, bear an evident Testimony of the contrary.

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§ 6. Spirit of Salt Marin (I mean not the Gracian Impostors, but) dexteroully prepared, according to the rules of the Spagyrick Art, hath acquired a good Character to some Physicians, for prescribing it to their Scorbutic Patients : And I were to blame for my filence, should I prætermit the great Effects of Spirit of Nitre, philosophically purged from in Arfenical fumes, not a few Scorbuticks owing their Recovery to the Acid from very obstinate accidents that were true issues of that Disease. Neither can the performance of these pracited inciding deopts tive Acids, be justly called into doubt, fince from the Spirit of Vitriol, and Vinegar, fuled in the Condiment of capers, Samphire, &c.) though of a firprick Energy, advantage hath been received in the Cure of Scorbuticks and Spleneticks. If then the Corroding

Corroding and Cerberous Acids merit a reception so just among the Apollinean Faculty, certainly, those that are acquainted with the true process of the Acid spirit of Tartar, being so Penetrative, Attenuating, Digestive Ecphractick, and yet of an amicable Acour, can pretend to a greater secret to Eradicate the Scorvey. By the way, observe, It is not against an Acid Scorvey they are such excellent Remedies, but against a Lixivial one, which in the progress of this Discourse will be farther explained to you.

- § 7. From this præcurrent illustration, we may be assured in opinion, that Acids by their native Qualification, are curative to some Scorbutick bodies, and therefore it must be through a præternatural Affection, they are enforced to constitute the Principles of the sorecited Malady. On this occasion, it will not be Dissonant, to Analyse Mercury (as it is reduced to a Pracipitate, or Sublimate, or other coagulated body, by acid Salts or Spirits) into its most intime Syntheticks, whence the Genuine Procreatives of the Scorvey will more distinctly Emerge.
- § 8. In order to the Unravelling of this so close knitted mineral, I must first repræsent to you these by me received Harmetick Theorems.
- 1. All Alcalies are contrary to Acids, and confequently do extinguish them, or if encountring in a leffer proportion only prefract them. Affuse the Alcalized Liquor of Tartar, to the Acid Oyl of Vitriol, in their just proportions, the Production will be a Salt of Tartar much præstracted in its Alcalized faculty, and a salt of Vitriol much obtused in its Acidity; but if the Alcaly of Tartar be superiour in measure to the Acid of Vitriol, then it doth reduce the Vitriol to a Caput Morthum, and intirely extinguish its Acidity.

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its Wings.

3. There is no Alcali, but in its intime and centrical Particles, contains a most Acid, Corroding, and Perforating Salt. Likewise, There is no Acid Salt, or Spirit, but in its centrick Particles is lodged a most igneous Alcaly. Within the centrick of the Acid Oyl of Vitriol, there is an Igneous and Caustick Salt.

4. Volatil Salt is nothing but the fixt Salt of any Body, Volatilized by the admixture of Sulphurous Particles.

5. The Purgative, or Vomitive, or other active faculty of Bodies, doth Emanate from their Volatil Salts, either by Irradiation, or Atomical Effluviums.

From the Application of these to any particular præparation, we are to expect, what now we Dive To this purpose, let our ordinary Turbith Mineral, as it is in the London Pharmacopea transcribed by our Physicians out of Ungerus, who records the invention of it to Adam Bodenstein, be our Subject, as best known to my Perusers, both for its Use and Process; though possibly this remarque may escape their knowledge, that whereas Directions are given in the Dispensatory, for affusing an Anatick proportion of dephlem'd Oyl of Vitriol to Mercury, purged from its plumbeous Recrements, which Evaporated, leaves a white refidence in the bottom of the Bolthead, to be sweet washt into a yellow Powder; the præscription of the fore-mentioned Bodenstein, requires an addition of Salt of Vitriol, in proportion of half the weight to the Oyl of Vitriol, which renders the Refult of the Elaboration less Churlish, and more effectual. Your

Your view on this discerns the most compact body of Marcary, dissolved by the Acid of Vitriel, its Fugitive spirits detained, or Volatil salt partly fixed by its Pontick Liquor, or Acid Salt, and through their mutual Re-action so Elaborated, that in this Conjunct state have assumed neuter Faculties, not to be deprehended in either singular: For the one is so eminent in the Adstrictive, that in Hamorrhages both internal and external, it performs what other Restringents or Emplasticks sail in. The other, viz. Quick silver aims at no other Essentials, than its weight or gravity is capable to produce; but upon their Coalition, they remove most obstinate Diseases by Vomit, Stool, Urine, Sweat and Salivation.

From the Inference of the first and second Spagyrick Theorems, you must be convinced, it is the Volatil Salt of Mercury, and no other Constitutive principle, is here Coagulated, because performed by its oppofite, a fixing Acid, and thereby fomewhat præfracted; for through the abatement of its Vibrating and Penetrating Faculty, it's experienced not fo capable, to Amalgamate the nobler metals into a Calx. From the repercussive particles of the said Mercurial Volatil Salt, the Acid of Vitriol is not only obtufed, but rendred a diffolvent corruptive Acid, whereas naturally it's known a great preferver from putrefaction and dissolution. And if you give credit to the fifth Axiom, which long experience hath establish firm and indubious among most Practicians; you must affert, not only the Vomitive and Purgative faculties to be iffues of the Mercurial Volatil Salt, but also its Salivative quality; which explain'd in manner following, feems to me to be evident enough, how it exerts its power.

6 9. Turbith Mineral, or other crude Mercurial præparation, is no sooner swallowed down into the Stomack, but through its most subtil Volatil Salt, doth attaque the Salts, that are floating in the Liquor, the capacity of the Stomack is ever furnisht with more or less, (for an absolute driness, would certainly be attended with a most dangerous Hiccoch, or Convulsion of the Stomack) which in some proportion converting into Particles of its own Nature, doth foon occasion a Turgency in the Liquor of the Stomack, (being an Effect of the Contrariery and Combat between the Mercurial Volatil Salt. and the Acid.) And the Lymph contained in the Lymphaticks of the Stomack, which Turgency continuated to the Ductus Salivales under the Tongue, and the others that terminate about the Cheeks and Gums, causeth an overflowing of the foresaid Lymph or Serum, where it's called Spirile or Saliva, quafi Sal Liquor, feu Salfus Liquor, or falt Spittle; for fuch it is. Here we must make a Digression to a succinct Explanation of the Fabrick, and Liquor of the Stomack , discovering the Nature of it, whence it fourceth, and through what Creeks and Inosculations it makes its irruption, and thence it will prove more facil, by a further pursuit to render the manner of Salivation obvious to the meanest Capacity.

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§ 10. Experiment in this Case makes the strongest Plea, and therefore I will offer you my Observation, Upon the Dissection of a Dog, sed with salt meat intermixt with Sublimate Corrosive, and thereupon most thirstily Lapping a great quantity of Water, wherein Pease had been boyled, and immediatly strangled. I was chiefly intentive on a strict view and research of the Stomack, in whose external

external furface or tunic, being a process of the Peritonaum, the Coeliack Arteries appeared very tumid and full, and every where discernable to the Eve, accompanied with Lymphatick Vessels, that were also no less Turgid, and supported by a number of small Glanduls, which at other times remain hidden, because there is not so great a Confluence of Lymphatick matter, to swell them up. The crusta carnesa and the interior tunic, separable in a Dog from one another, through this fuperfluous Irrigation were Fungous, and upon a pressure the Lympha extilled at little Pores or Orifices; which probably may be conjectured the extremities of the inosculations of the Lymphatick Vessels. The dispersions of the Branches and Terminations of the forefaid Coeliac Artery, through the middle and inward Tunic, were extreamly distended with Humors, and the Lymphaticks every where throughout both Tunics no less visibly burden'd with moiflure, and upon a diligent observe of their track, were found to ascend the Oesophagus, and to perforate the great Glanduls, and thence to the Toufils, the Ranine and other Glanduls of the mouth.

§ 11. Before I detected the Expatiation of these Lymphatick Channels, could not out of any Author supply my self with the Reason, why upon the assuming of any ungrateful Medicine, Purgative or Alterative, after a small interval, the mouth doth salivate a thin pellucid Serum; which from the præmised Discourse seems very evident: for upon the Combat between the Dissolvent Liquor (or that which is improperly called the Ferment) and the Volatil Particles of the medicine, happens a Turgency, which by continuation being likewise impressed upon the Lymphaticks of the Tunics of C4.

the Vintricle, and Oesophagus, must necessarily occafion an overslowing at the Termination of the Dutius Salivales, both of those under the Tongue, and the other on the sides of the Gums.

§ 12. By the way, I must make one observe, how unsuccessful Authors have been, in imposing the name of Ferment upon the Acid juice of the flomack, and describing its source, or original. The word Ferment, (as you may read more at large, in the first part of my Treatise, De Febribus Cap. V.) is univerfally taken to be that, which clarifies and exalis any compound Liquor, that's newly made by Decoction, Infusion, Expression, or otherwise, to a greater perfection, by means of a fimpering (for Fermentum takes its Derivation à Fremendo, and not Fervendo) or a small Ebullicion, whereby the Liquor is subtiliated or attenuated, and the Heterogeneous bodies separated into a Froth and Lees. This fignification can in no manner be applied to the foresaid Acid juice, performing only the Office of dissolving the Victuals received in the stomack, and coequating it into a Cream or Chyle; a word originated from yvery to dissolve : where fore there being only a Diffolution of what's ingested, or a production of the chyle attained by means of this Diffolvent Acid, and no Depuration or Exaltation; it doth more properly require the name of a Diffolvent Liquor, than of a Ferment, and consequently there is no Fermentation in the ftomack, but only a Diffelution, and coequation; whence may be remarqued, how Truth is oft overruled by an impetuous Current of Opiniaters.

§ 13. The fource whence this Acid juice should stream, was for a long time afferted the Spleen, effusing

fusing through the Vas breve, into the stomack, which the Curiofity of Anatomists observing not to be pervious at its termination, concluded there must besome other passage, through which the said Juice was conveighed; but none durft præsume to assign it, untill Sylvius, the late Phylick-Professor of Levden, did artempt to prove this Acid juice to be engendred in the Pancreas, and therefore named it Succus Pancreaticus, whence through the Ductus Virsungianus was by Regurgitation forced up into the Stomack. This Conception of Succus Pancreaticus hath fo fondly been Nursed by him, that in his Idea Nova Prax. Medic, he doth impeach it. to be the Productor of most Diseases. Much less than a Demonstration, for scarce a probability of this Acid Pancreatick Succus hath been offer'd by him, which so much Disgusted Monsieur le Vasseur, a Physician Regent of the Faculty of Paris, that he undertook to Demolish that principle in a small tract written in Latine, wherein he doth fiercely impugnate his Triumvirate of Morbifick Caufes, (as he ftiles it in his own Ideom) though without obtaining any Advantage on his Adversary, the one being no more auspicious in refelling the Acid Pancreating juice, than the other in afferting it.

§ 14. In the first place, I find no Difficu'ty in maintaining, that the Succus Pancreaticus is at no time secundum Naturam propelled into the stomack; for the Grand Channel , which is the Duclus Verlungianus, terminating near the Confines of the Duodenum, and the Ilion, and disburdening the superfluous Juice into it, is naturally according to the Periflattick motion, being performed by the Contraction of the Circular Fibres, expelled and carried downwards; and if at any time it is forced into the

the stomack, that must needs happen by means of the invertion of the Peristaltic motion (namely, the Circular Fibres contracting from below upwards) which undoubtedly is Convulfive, being occasioned through a stimulation of the said Juice, Vitiated or Obstructed, and is absolutely contra Naturam. But I according to the Tenour of this Discourse. the Pancreatick Juice is Regurgitated into the flomack; is fo far from Pleafing or Delighting it. through that amicable Acour, that's Fictitiously attributed to it, that it occasions a maukish Nauscoufness and Salivation, which Re vera are effects of a fweetish thick moistening water, contrary to what flows from the Causality of an Acid Humour; and nothing is observed, to have a greater share, in disfolving the Tone of the stomack, and contributing matter to those slimy ropy Crudities, plaistered to the fides of the flomack, than this incraffated Pancreatic juice. So that it must be believed, that this kind of Fallacious Doctrine is by those, that for their feeming parts are placed in the School Chairs, violently imposed upon their Scholars, who imbibing this in their infant fludies, like Principles of Religion, effect it a great Crime, ever to doubt of what their Mafters infused into them.

Quo femel est imbuta recens servabit odorem. Tefta din. &c.

§ 15. In its natural Qualification, I am affured, the Pancreatick juice partakes of no acidity, proof thereof shall be offered you below. The Pancrea to me, scems to be the finck of the Lymphatick Vessels, whither they post the superfluous Lymph, that hath done its Task, to be Evacuated as an Exexement. But here the Wildom of Nature is very remarkable

remarkable, in inserting the Duclus Pancreations, or Virlungianus into the Duodenum, neighbouring fo near to the Ductus Cholidochus; the one namely the Cholidochus ferving the gall bladder, (cyftis bilis) as a Conduit to Disgourge the overflowing Choler into the Gurs, which otherwise through its extream Amariende and Lixivious corrofive Salt, being rendred fo superlatively sharp and detergent, would offer violence to the most sensible small Guts, and soon onaw off its Internal Tunic, were it not that meeting with this fweetish, thick, molftening Water, Extilling from the Ductus Pancreaticus, it was foon allayed, and qualified with its Lenitive and-Dulcifying Lentour. A further use Nature hath destined it to, is to moiften, and render the internal Tunic of the Guts glib and flippery, for to promote, and facilitate the descent of Excrements, being moreover the material Cause of that Pituita, or Fleam, which is ever found in the small Guts, in the state of health. Neither do I give the least credit to those Capricious Opinions, the fore named Sylvins hath superstructed upon so Erroneous a Fundamental, as this Acid Pancreatic juice, viz.

1. That there daily happens a mild Effervescency between the Bilis and that Juice, which I am confident a Healthful Person is altogether insensible of, unless indulging his appetite in a large rouse of strong

Liquor.

2. That through a Vitiate Acidity of this Juice, are occasioned Dysenteries, Gripes, Vomkings, and

what not; read chap. V. Lib. Precitat.

3. That all Discases depend on the Præernatural disposition of his Triumviral Humour: To wit, Fleam, Choler, and this Pancreatick juice; but for all this, not one syllable of Proof, rather introducing a thousand Absurdities on the Neck of another.

§ 16. I am now arrived, where I am to illustrate to you, the Pancreatic juice is so far remote from being Acid, that it's perfectly sweet. It's a Concession granted by all, That Moisture is more apt to turn Acid in an Extinct Body, than Living; as appears in Veal, which being kept too long, expires an acid steam. If so, then,

1. The Pancreatic juice, obtaining an Acidity in a Living Body, must necessarily assume a greater Acidity in a Body Expired; which is observed contrary, for the Juice that is expressed out of the Pancreas of a killed Calf, both a clammy sweet taste, and certainly is endued with a far sweeter savour, whilst it contains a proportion of Volatil Salt within

the Channels of a Living Body.

2. The Pancreas it self Raw or Boyl'd, pleases the Palate with a sweet taste, beyond any other fort of Fiesh, which qualification cannot be in a Body that engenders an Acid Juice, or daily is Irrigated with it. Propter quod unum quodque tale est.

illud magis tale eft.

3. Lymphatick Vessels about the Stomack, and those of the Pancreas, both deriving from the Spleen, and having a Communication and Commerce in the same Contents, namely Juices or Lymphs, It is not to be doubted, but both Juices of the Stomachick and the Pancreatick Lymphæducts, participate of the same Nature, and Taste, which being deprehended sweet in the Stomack Lymphæ. ducts, can be no other in the Pancreatick. cines that Create some Labour to the Stomack, and move a Turgency in the Lymphatics of the Stomack, occasion an overflowing of the Ductus Salivales, or a Salivation of that very Lymph, or Juice, that was floating about the Ventricle, which is commonly pronounced by all, to have a Sweetish or Subdulce

dulce tafte in the Mouth, and doubtless, that of the

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4. An Argument may be deduced à causa; the Lymph of the Stomachick and Pancreatick Vessels is Replenisht, and well Saturated with Volatil Sale, whose Nature is experienced, to Expel and Extinguish all Acidity, and so consequently the foresaid Lymph must prove sweet, and in no wise Acid:

§ 17. The Lymphatick Vessels being in great numbers directed from the Spleen to the Stomack, to transport thirher a proportion of Lymph, that in the Percolation of the Blood, was attracted and affuged into the faid Lymphatick Veffels, being thorowly faturated with Volaril Salt, transported through the Pores of the stomachick Nerves, and Cœliac Arreries, is Effued into the Stomack at fuch times when it hath received Victuals to Digeft; for thereupon the Arterial Blood, and Vital Spirits are moved and attracted, and a hear Excited, whereby the Lymph being Attenuated, rendred Turgid and the Vessels Tumefied, is forced into the Stomack in that quantity, as doth sufficiently Relax the faid Lymphæducts. This Lymph by means of the faid Volatil Salt, is fo subtil, penetrating, attenuaring, and rarefying, that uniting with the Volatil Particles of the Liquor ingested, and that which by Maftication of the Victuals lies perfused and dissolved, doth soon dissuite and dissolve the Vinculum of the folid Victuals, and being thorowly mixed with the Liquid, is speedily reduced into a Cream or Chyle. Whilft this Attenuation and Solution is performing, there is a Turgency occasioned in the Capacity of the stomack, which streightning the Arteries, that Amplexe the Stomack, do through

through Renix duplicate their Pulfation in Fraquency and fortitude, (as appears upon feeling the Pulle of the Carp after Dinner or Supper) whereby the Hear is much intended, and Copious Effumations of Vital Spirits or Arterial Volatil Salt , immitted into the faid Capacity, which do most vigorously asfift the Diffolution and Concoction of the Stomack.

5 18. That the Concoctive Faculty is most Active and Potent in the Fund, or bottom of the Stomack, hath been hitherto the blind opinion of most Anatomists, upon surmisal, that the Acid Ferment, which bears a great part in the Concoction, through its Gravity and Præcipitative quality, is chiefly floating about the lower Region of the Ventricle: but if we suppose, the Digestive Operation to be performed principally, by virtue of the Volatil Salt contained in the Pores of the Lymph, being of a fubliming and afcending nature; the Stomack by reason of those greater Nerves of the fixth pair, and Fibres of the greatest strength, Circumvesting the upper part of the Stomack to be most Robust, and the Heat and Diffolvent steems to be Reflected, Collected, and Augmented there; it must be confessed, that the Digestive Faculty is most Energic about the upper Region of the Ventricle. Particular in order to be Explain'd, is, when and how the Juice that is Concocted, is separated from that which is not yet perfectly digefted, and afterwards Transmitted through the Pylorus, or Inferior Orifice of the Stomack, into the fmall Guts. That the whole content of Victuals and Drink is not to long retain'd in the Stomack, until the entire Mass be totally Digested, is Experienced by all, that observe their Stomacks after Meals, to grow gradually Lighter and less diffended, and their Appetites

petites likewise return Gradually, and so consequently the upper part of the Chyle being sirst Concocted, and swimming a-top like a Cream, is sirst præpared, and ready to be Essued thence in this manner: The Chyle being thorowly persused with a great proportion of Volatil Salt, is so Rarested and Tumid, that it now exceeds its bounds, and by assistance of that Aculeous quality of the associated Salin Particles, stimulates the Oblique Fibres to Expulsion, and still as in the same manner the Stomach is gradually disburdened, so the Fibres gradually Contract and Corrugate the Tunics into a smaller Comprehension, until the whole be Transmitted, and the Stomack reduced to a scarce greater Circumseription than a Fist. Several particulars

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The first. That the Finer and most Commune matter is Extermined first, and that which is somewhat of a groffer Pulment next, until at laft the coursest and Faculent part succeeds to be wrought upon, which being Tough, Tenacious and Glurinous, requires an Acid Diffolvent, by whose force. together with the Continuation of the hear. Animal and Vital Spirits, or Vivid Volatil Salt furning out through the Pores of the Nerves and Arteries, the matter is more potently Incided, Comminuted and Diffolved, and the faid Acid Diffolvent, or Mock-Ferment, obtaining a Pontique or Amicable aftringent Acidity, is qualified thereby, to præcipitate the gross remainder of the Chyle into the Duodenum. and afterwards to fortifie, and corroborate the diflended and defatigated Fibres of the Stomack by a gentle Aftriction.

The second, That the Ventricle being full, the Pylorus or lower Orifice is Erected high, to prævent the too sudden Expulsion of the Chyle, and there-

fore

fore no part but what is uppermost, and rendred turgid, by being throughly Imbued with Volatil Salt, can be Transmitted; but as the Chyle Ebbs lower, fo the Pylorus feems likewife to decline downwards by the Contraction of the Fund of the Stomack, to give an eafier paffage to the weighty and droffy remainder of the foresaid chyle, to which, should the Pylorus continue Mounted, at so great a distance from the Inferiour Region of the Ventricle, the Trajection or Expulsion would prove extream difficult.

The third is. That the last remainder in the stomack, upon every compleat Concoction, is nothing but Drofs, among some Physicians called the Scoria, which being Commixt with the Acid Mock-Ferment, is præcipitated into the Duodenum, where by reason of the Acrimony of the Commixt Acid, vellicates the faid Gut, at the Terminations of the Cholidachus, and the Ductus Pancreaticus, irritating the former to Disburden its Cargo of Choler, and the latter its incrassated Glutinous Lymph, of which three only the Excrements of the Guts do confift, viz. From the Drofs or Scoria of the flomack, they derive their Matter and Confistency, from the Pancreatic Lymph their Clamminess and Cohassion, and from the Choler their colour, from the quantity whereof it's more or less Yellow, Red, or Luteous, and from the commixture of all their flinck doth derive.

The fourth Observe is this, That whilft the Body is feated in a healthful state, the sweet Cream of the Chyle not being irritative, passes the Duodenum and the other small Guts, without being perturbated, commixt, or corrupted with the forelaid Excrementitious Choler, or Pancreatic Lymph, which ever as I said before, are disburdened at last, separately from the Alimentary Juices.

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The fifth Discovers an Error of Opinion of some of the Learned in Phyfick, who strive to maintain, that it is the Red Dregs of the Blood, is Evacuated through the Ductus Pancreaticus, which they name Gloces Sanguinis, not being unlike the Dregs of Red-Wine, which partly they fay confifts of thick Melancholy, that hath perform'd its Task, and partly of the Red of the Blood, that was too long Retain'd, and fomewhat Adust. Of this Opinion the Learned Professor Vander Linden, of famous memory, was the Author, and also did (among the rest of his Disciple) Instil it into me many years past, but having only his and To for it, and upon Anatomical fearch into feveral subjects, not finding any Red Dreg or Lee, or any thing elle, except the oft fore-mentioned thick Pancreatick Lymph, have juffly deserted that Tenet.

The fixth puts me in mind of the præpararion, all folid Victuals requires, namely of being Massicated, Ground small and even by the Teeth, and withall perfused with spittle, which almost consisting of the same principles and Volatil Salt, the Dissolvent Lymph of the stomack doth, is a singular assistent to the Concoctive part. That the spittle is so præguant of Volatil Salt, is clearly evinced from its Dissolutive virtue, sostening and discussing almost any Pustle in less time, than any Medicine whatsoever; and supposing the spittle to be so Turgid of Volatil Salt, much more the Dissolvent Lymph of

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The seventh Annotation is, That during three fourth parts of the time of Concoction, the Dissolvent Juice is no wise Acid, but on the contrary partakes of an Igneous Alcalized Volatil Nature, abounding with Penetrative, Dissolutive and Pungitive, or Mordicant Effluviums and Steems, as may

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be observed by those, that occasionally Belching at the mid-time of Concoction, or before, or somewhat after, are so vehemently stung, bitten, and inslamed in their Throat, and along the Oesophagus, that it is not in the power of Brandy, or other Ardent Spirits, to imitate those Effects. But the Volatil Salts being together with the Chyle, passed out of the stomack into the small Guts, the Dissolvent Lymph is lest Acid, to accomplish the Digestion of the Gross and Fæculent remainder, which towards the latter part of Digestion, or some six or eight hours after Meals, in some quicker, in others slower, is upon an Eructation or Belching perceived in the Mouth, not only Sour, but Acid with an Adstriction, not unlike the Acid Spirit of Vitriol.

6 20. To those that are knowing in the Analytick part of the Spagyrick Art, it's very Obvious, that Compound Liquors confift of a Volatil Salt, and an Acid Tartar, as plainly may be Demonstrated in Wine, whose Volatil Salt or Spirits being extracted, and dissolved from the Union with the Fixt Particles, through the attraction of the igneous effluviums of the Ambient Air, the Acid Tartar doth immediately appear in the tafte of the remaining Liquor, which then is called Vinegar, or Sowr Wine. In the same manner most other Liquors and Decoctions being deferted of their Volatil Salt, by Attraction of the fun-beams or Ambient Air, do likewise immediately turn fowr. though sweet, when it's egested out of the Mouth, grows Acid, as foon as its Volatil Salt is Exhaled. Upon so perspicuous an Illustration, I cannot imagine you expect further proof, that the Diffolvent Lymph of the Stomack is not at all Acid, but contrary, as foon as it's effused into the stomack, it's **fubdulce**

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subdulce or sweetish, and continues so until it's Body is Expanded, Pores opened, and its Volatil Salts and Spirits Extracted to the Circumference. and then its grown Igneous, Colliquative and Mordicant, and at last, the Volatil Salt being partly Evaporated, and partly Attracted into the Vafa Laftes (like Wine changing into Vinegar) turns abfolutely Acid, Inciding and Aftrictive. ments in greater number, and of no less Evidence, I could here offer to your Confideration, but do pretermit them to avoid the Suspicion of judging my Reader so Obstinate an Opiniater, as not to be perfectly convinced of the truth of the Pramifes, by what is already proposed. Neither would I have you conclude, that I have fleer'd beyond my Rhomb, in Expatiating into fo Ample a Difcourse of the first Concection or Chylification; for the true Think of the office of the flomack, and its manner of Operation, is a great Fundamental of the Art of Medicine, the Ignorance whereof (God mend it) among Physicians, is a great occasion of their too great Correspondence with the Sexton and Grave-What Principles, or rather Phanomenon, an Eminent Physician of the City, had assumed in Informing himself with the manner of Production of the Scorvey, and its Causes, I could never apprehend from his Receipts; but this is most certain, that a Patient of this Physician, a person of Quality. and a very near Relation to a Peer of the Realm, for the benefit of Air, living at Woodford in Elfex, had the strength of walking abroad, made use of Medicines præscribed by him, but within two days Ghofted. Whether the faid Medicines, fet the Humors afloat, or whether our Doctor had been upon the merry-pin before he præscribed, was much doubted.

CHAP. VI.

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In the been hinted before) every particular doth so exactly resemble the Scorbute, I find the Material Cause is the Liquor of the Stomach, and the Lymph of the Stomachick Lympheducts, which like a continuated Stream is forced up; but how this Issue of the Mouth is supplied, ought to be sur-

ther inquired into.

Although many of these Water Rivulets from the Brain, and other parts of the Head, do Communicate with those, that are terminative within the Mouth, yet it must be received for a Truth, that the great Source and Spring is about the Stomach, and the Pancreatick Lymphaticks, which larter streaming so impetuously upwards, are the chief Cause of the Constipation of the Belly, being otherwise greatly promoted, in its natural Quoridian Evacuation by the wonted descent of the Pancreatick Juice, Relaxing and Lubricating the passage of The Anxiety attending a Salivation, is a Symptom oft very urgent, and depends on a ftreightned passage of the Blood, through the Ventricles of the Heart; for being deprived of the greatest part of its Volatil Salt, imbiled by the Lymph or Serum, which is now too much drained from the Blood, the Pulfifick Faculty for want of the Volatil Salt, must necessarily Languish, and the Blood being too dry, and Coagulative, must needs pass the Heart with great difficulty. Neither is this the fole Cause, but being accompanied with a stoppage of the Salivation, as oft happens, the Salivable Matter doth Regurgitate to the Lymphaticks

ticks about the Hypocondria, where it doth Duplicate the Anguor, which in some I have observed so extream, that they owed their narrow Escape to very Opportune Remedies, and most, if not all, that have the ili Fate, to be banisht the World in a Salivation (which the Chyrurgious and Apothecaries of this Town are so unsuccessful in) have been stifled by these Anguors.

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6 2. The Blood floating through its Chanals, saturally is indued with a sweetness, but in a Salivarion, and the Scorbute, turns Acid; the manner how, is the great Secret of this Theory. Premisforily it's requifite, to propose the Nature and Kinds of Acids, which are various. The Acids of Vinegar, Vitriol, Nitre, Common Salt, Tartar, Antimony, Allom, Sulphur, &c. all obtain a specifick difference, as is rendred obvious by their Properties and Efficiency. The Acid of Vinegar is particularly observed Potent, in Attracting the Sulphur of Minerals. The Acid of Vitriol is Diametrically opposite to the Alcali of Tartar. Nitre by force of its Acid, doth Amortise the Volatil Salt of any Mineral; abstract it oft from Mercury, and the refult will be a Dulcified Arcanum Corallinum, a Medicine fingularly reputed for a mild Vomitory and Dejectory; upon further repeated Cohobations, the forefaid Arcanum deferts its cathartique Faculties, and is limitted to a Diaphoretique. The like Effects it produces on the furious Body of Butyrum Antimonii. The Acid of Salt Marine is the sole Dissolvent of Gold, especially when united with the Acid of Nitre, and then conflitute the true Aqua Regia. which is in nothing different from the common Aqua Regis, abstracted from Vitriel, Nitre, and Sal Armoniac, except that the former far exceeds the latter

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latter in Purity and Force : For though the common' Aqua Regia, be made out of Aqua Fort. Cohobated upon Sal Armoniac, it's most certain, the the faid Aqua Fort. is nothing but the Spirit of Nitre, that of Vitriol being too ponderous to afcend through the same degree of Heat; and the Sal Atmeniac, from which this is propel'd, contribute nothing, but its Acid Spirit of Salt, which confitutes the Body of the faid Sal Armoniac; for the Volatil Salts of Urine and Soot, which defer to it a Specifique difference from other Salts, being Alcalles, are Amortifed, and Extinguisht by the Acid of Nitre, and consequently in their Extinction, must necessarily by Reaction obtuse, and hebetare the Acid of Salt and Nitre, whence it appears this fort of Aqua Reg. must yield to the other, in point of Efficacy and Virtue. In the Thirst of Hydrepicks, the faid Acid Spirit of Salt, through it's penetrative Faculty doth excel all others, in Allaying and conqueriog the Exiccative Quality of those fiery Salts, that are daily Meteorised to the upper Orifice, or Supream Region of the Stomach, and there occasion those infatiable Droughts. is a Subject of Admiration in the Acid Spirit of Tartar, confidering there is nothing fo Remote, or Abstruse in the Body of Man, but it will find out and Infinuate into; but what is more than this contrary to the Nature of most Acids (whose Operation is univerfally by Urine) it's a great Diaphoretique, and provokes Sweat potently. Antimony, if like Vitriol it may be called the third part of an Apothecaries Shop, it's Acid Spirit merits the chief place in it; for beyond all peradventure, he that's unacquainted with this great Acid, is by some thought ignorant, how to cure a Malignant Fever e Fundamento. The Acid Spirit of Sulphur, though ufually

usually termed the same with Spirit of Vitriol, hath that difference, that it contains a fixt Principle, whence it derives a Power, to fix the most Fugitive of Minerals, which is denied to Spirit of Vitriol.

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6 2. But to illustrate this more plain, that fome Acids are very different, and in a manner almost as contrary to each other, as an Alcaly is to them; only make trial upon the Magistery of Coral or Pearl, which is commonly præpared, by their Dissolution in Spirit of Vinegar, (whereupon happens an Ebullicion) Exhalation of the faid Spirir, and Edulcoration; upon this Magistery effuse some different Acid, as Spirit of Salt, Sulphur, or any other, there will arrive another Ebullition, as smart if not imarter than the former, but of a fhorter continuance, which Evinces, there is a great Contrariety; as appears further in this particular, that one Acid will præcipitate, what's contained by Diffolution in the other. There is no less Contrariety between Alcalies, or Sulphur dissolved by a conthuated Ebullition in the Capitel or Lixive of Calz viv. is præcipitated by Urine. Any of the Arematique Oyls, be it of Cinamon, Cloves, &c. is Incrassated, and Coagulated into a thick Balsam, by affusing Spirit of Sal Armoniac to it, which is an infallible Character of Contrariety between them, and (by the way) is lookt upon as a great Secret, whereby a Balfam may be made without the Mixture of Wax, or Oyl of Natmegs. Besides these, it is to be remarked, Acids are either natural, or Corrupt. The former bears the part of a Constitutive Principle in all Natural Bodies, though being prædominated by an Alcaly, or ballanced to a temperament ad Justitiam, is not exposed to be disco-

discovered by sense; but by a Chymical dissolution into their Elements, the Acid is ever discovered to Universal view to be done. All Salts, (not being Alcalious) though the Acid lies dormant and hidden in them, by the force of Fire through a Retort, do deprome their Acid; all forts of Wood do exert the like Acid, being forced in the same manner through a Retort; which Acid before this Analysis, could not be deprehended in them by Taft or Scent. A ftrict Proof will not be required. I imagine, that there are some Acids, that are corrupt; Apples and Pears when they begin to rot, smell and tast sowr, and so do Flesh means, and most Artificial compound Liquids corrupting, as Beer, Syrups, Meathe, Broaths, and most forts of Decoctions, also natural Compound Liquids, as Milk, Wine, &c. None of these Acids, but by any Naturalist will be termed Corrupt. But what is more, Bodies that are primarily Acid, are subject to be Converted into a corrupt Acid, as appears in the Juice of Limons, Oranges, Pomgranares, and others, which being exposed to the Rays of the Sun, do decline into a corrupt Acid, far remote from their Natural.

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The variety of Acids beyond this last inserted distinction, is great: Acids are either Pontique and Styptique, as some deep red Wines, Vitriol, and many Vitriolate Præparations; Acerbous, as immature Pears, Apples, Plumbs, &c. Austere, as some sort of Wines, that taste sowr and harsh. There is also an Acre-Acidum; a sharp Acid, without any Stypticity or Austerity, as the Acid of Spirit of Salt Marine. In Musilages is also a particular Acid to be observed, which may be termed Acidum Mucilaginosum. Some use may be made of describing Acids, by names derived from Acids in Minerals.

Minerals, whereunto the Acids in the Body bear a proportion and resemblance, as in some it's remarkable, they experience a sowr styptique taste upon their Tongues, not without some likeness to Copper, which may not improperly be called a Vitriolat Acid. In the same manner other Acids may be termed nitrous, aluminous, &c. By the way I am to advertise, that I am not ignorant, that Namral Philosophers distinguish Tastes into acid, sharp, austere, &c. which here I do resume as kinds of Acids; referring the truth thereof to the arbimement of any ones sense; but those Naturalists following the umbrage of reason more than Notion, abstracted from Experimental Philosophy, no wonder they failed in this particular.

I must here divert my Reader from opinioning me to have deserted my line, in bringing on the board the nature and distinctions of Acids; which I affirm is no wise forreign to this matter; for it is from the Præmisses I am to deduce and illustrate, there is in the humors of the Body discoverable a matural Acid; that they are subject to be converted.

into corrupt Acids; and the manner how.

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If to all Physical Bodies there concurs an Acid, as a Constitutive Principle, whereby the Alcali is bound and coagulated into a body, it cannot be denied to the humor, which for further proof being mixed with Brick dust, the Mass formed into Cakes, dried and forced through a Retort, you shall find in the Recipient an Acid spirit of great Energy and Vertue in Hydropick Maladies. This is the natural Acid is Latent in Humors, and not to be discerned by Sense, because it is prædominated by the Volatil Salt being of an Alcalious Nature. To continue the on, in the next place it's to be declared the Humors, and particularly the Chyme is D

50 The Difease of London, or

susceptible of a putrid Acid. The vulgar Barber. Chyrurgions and Bleeders, give their Teflimony, that the Blood by Phlebotomy extracted out of feve ral diseased Bodies, to their taste hath appeared Aluminous, Auftere, and in some Scorbytiques very sensibly Acid or sowr; their Breath hath also expired a sowr steam, and those Tormina or taring pains of the Guts, which Scorbuticks are fo much exposed to, are sometimes caused by a Pituita Asida, or Acid Phleam, terebrating the For brevity I do prætermit Tunics of the Guts. many other Arguments, inferring the Blood in Scorbuticks to be Acid, as the evident Derivation of Symptoms from an Acid, will in the process of this Discourse more amply Demonstrate; only in conclusion of this Paragraph, I do say, That if h be granted, that Milk doth oft turn fowr and curdle in the Breaft, it's as probable the Blood in the Vessels doth turn sowr and Coagulous, they being in constitutive principles, but little different from one I cannot very well avoid animadverting on an O jection, that Prima fronte feems to carry fome force, viz. That if the Blood be supposed Acid in the Scorvey, then all Acid Medicines muft render the Blood more Acid, and the Disease work, as is implied by that trite Theorem in Phyfick, Similia fimilibus confervantur, & contraria contraris curantur; and consequently Alcalies should be furnished with a virtue, to subdue the faid Acid, being their contrary. The præmitted dissertation contains as to this a very fatisfactory Answer, wherein it is very perspicuously exhibited, that many Acids are è Diametre contrary to one another, as according to the rule of contraries (Contraria fefe mutuo pellunt ex eodem fubjedo) appears by the feveral Ebullitions (a fign of contracticty of two different Acids) in the above-ment

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wherefore most Acids, especially Spirit of Salt Marine, Julce of Sorrel, Limons, Citrons, &c. are to defervedly extoll'd in some Scorbutick Distempers, and seconded with good success; though I must confess, they are must properly and chiefly

pleful in a Lixivial Scorvey.

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The field of Acids is large; Therefore which of them this Scorbutick Acid doth most imitate, will be expedient to propose next. Upon pervolving those Authors, that have treated on this Distemper, I find them so closely adhæring to Similies abfracted from Wine and Vinegar, that I judge it a matter more facil, to draw a Drunkard out of a Tavern, than them from their course notions upon Wine and Vinegar. He that resembled Scorbutick Blood to Wine that's turn'd Ropy, hugs himself in that fubtle Invention, and in the ample recompence of being applauded by the young sucking Physicians. This word Ropy is oft intended for ftringy, or fireaky, there being long fireaks separated from the whole fluid Body, and floating in the thin Liquor, as appears in Milk that's turned fowr and grown Ropy: But such I could never yet observe in Scorbutick Blood, though I have examined a great number of Porringers. Blood that's tenacious, obdufible and glutinous (which thence may be termed pendulous) I do very frequently meet with among Scorbuticks, but that's no other, then what flows in the Veins of most Cachecticks. The Cause affigued (by my Author) of the Roapiness of the one and the other, is an overfretting; wherefore, he fifth, the Scorvey is oft subsequent to a continual Fever: And why not then to all Fevers, there being as much an overfretting in the one as in the other? Whence this is the consequence,

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that all Scorveys are produced by Fevers, or Overfrettings; and what overfretting of the Blood are Seamen and others subject to, that derive the Se minary of their Scorvey from the Salin Air of the Seat I could never yet understand any. He proceeds and would perswade you to believe, that through this over-fretting, the Sulphur and Salts are separated from the Mass of the Blood, and being abandon'd to the Urine, render it Red like unto Bloods as if the Urine of all Scorbuticks were of that tipcture. If this prætended Roapiness may be attributed to the Blood, it must be that, which is contained in the vessels of the Mesentery, whence groß Humors are purged away in great Streaks and Ropes: But that it should be Streaky within the Vessels, because it appears so, when by Carthartick Phyfick it's purged thence, Non valet ratio. For farther Explanation upon Roapiness, I refer to Chapter II.

Others affirm, the Blood in the Scorvey to turn Acid like Vinegar. By the way, you must not apprehend the Blood to decline to the fame Degree of Acidity Vinegar is of; for that must necessarily Infer a total Extinction of the Dogmatick Innate and Influent Heat; but that it only recedes from it Dulcor and Sweetness, to a Crude Austerity and fome small Acidity. It will not be out of purpose, to Examine how an Acidity is introduced into Wine, and consequently becometh Vinegar; whence probably may be Extracted the Cause of Acidity in Scorbutick Blood. Peripaterique Philosophy affers Wine to change into Vinegar by Putrefaction and Corruption. Putrefaction (being by some account ed only a tendency to Corruption) is defined by the Stagirite a Corruption of the proper Natural hea in each moift Body, occasioned by a forreign Heat that's

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that's without. This applied to the Generation of Vinegar, infers that Sowrness to proceed from an Extinction of the Natural heat or Spirit of Wine. by an External Heat. I cannot but admire here, that a Liquid Body should iffue from a præceding Liquor by putrefaction, and that without any Fator or ftinck, which is afferted to be an inseparable Accident; and what is more, that a Body should be engendred by putrefaction, which of all others is the greatest præserver from putrefaction; for such Vinegar is effeemed to be. Wherefore it's more Rational, and Consentaneous to Experiment, that Wine confifts of fixt Salt, Sulphur, Votatil Salt, and Lymph, or in the Spagyrick phrase, Mercurius. The fixt Salt is the Acid Tartar; the Volatil (incorporated with the Sulphur) being diffolved into a small proportion of Lymph is the Spirit, which as long as it continues United with the Fixt. Salt, doth obtuse the Acidity, and renders the whole Mixture (weet, as the Wine appears to the Palate, but being separated from it (as hath been hinted before) the Acid Tartar dissolved in the greater proportion of the Lymph, in effect is the Vinegar; so the way to make Vinegar, is to abthat the Spirits or Volatil Salt from the Wine, by fuffering it to Exhale, or by Exposing it to the Sun, or Heat of a Fire, which Attract the foresaid Volatil Salt, or by adding a small measure of sharp Vinegar to a greater of Wine, which with an united force of the Fixt Salt, do foon Extinguish and Expel the Volatil, and then the prævailing remainder is converted into Vinegar. The method chiefly in use among the Vinegar-makers in France is this; They take two Barrels of a long shape, which there. they call Flutes, and being well cleansed, they put. into each of them Four, Six, or Eight Quarts (ac-D 3

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cording to the bigness of the Vessel) of the strong. eft and sharpest Vinegar, being made boyling hor, and thereupon stop the Bung hole very close, then they Roul and Move them to and fro for Six Hours together, until the Vinegar is grown cold, after this they run it out again, until there is not a Drop left, and then lodge the Barrels in a warm place, and fix them to, that they may lie fast and not ftir; upon this they make two holes (which they call the Eyes) in each of them with a Piercer, about a foot from the bottom, and pour into those Holes through a Funnel, some eight or ten Quarts of the best Vinegar, and a Week after they pour two Quarts of Decayed Wine to it through the same Holes, to make Vinegar of, a Week after that they put a much more to it , and fo every Week they add as much more to it, until the Barrels are a little more than half full, and then they encrease them every Four dayes, until they are quite fill'd, which they draw off to two Thirds, for to fell; and afterwards fil up their Flutes again gradually.

From whence I infer all Wines to be actually Vinegar, and Spirits, that is to be Physical Compounds, containing actually the Principles of Actulty in them, and Volatil Salt of an Alcalious Nature; and on the other hand I deny, That in Vinegar the Acidity is introduced or wrought into it per set, by the Efficiency of the Sun or other Extraneous heat, but only per accidens, by separating the Volatil from the Fixt Salt, or reducing it into its

Principles.

In the Generation of Vinegar there are several alterations observable, being Ascents and Degrees, tending to that extream Acidity Vinegar is of: In the first place, Wine changes to a Muddy and Turbid Countenance, loosing that Diaphaneity and equality

aquality of Substance and Colour it had, because the Constitutive Particles have changed their Pofition and Situation; for in Wine that's declining towards the Eger, the Volatil Salt, which before had aqually expanded the Fixt Acid Salt, Exhaling or Receding, the faid Fixt Salt doth somewhat Coagulate, and unites nearer in its Particles, whereby this Obscurity and Turbation is introduced. In this degree the Wine hath fomething changed its Tafte, and Drinks flatter, but no kind of Sowrness doth then appear; for though the Acid Salt feems to get ground upon the Volatil, it's not yet arrived to any mark of Acidity, because the aforesaid Acid is commixt with a slimy dull Tartar, which Obtuses in Sowrness, and is the principal Cause of the Obfearity and Turbidness in the Wine. It is not long after, that a little Sowrnels may be discovered by the Tafte, and Turbidue's observed to diminish; for as the Wine gains in fowrness, so it loseth in obscurity, the Acid freeing it felf from the flimy Torus, pracipates it to the bottom, or by Inciding and Attenuating it , disfolves it into Lymph, whereby it's Clarified and grows Pellucid, and conequently as it grows fowre fo it grows clearer, until it becomes perfect Vinegar, and then it's likewife grown perfectly diaphanous.

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Now you may eafily imagine, it is not my scope, only to offer my Reader the Theory of Vinegar, or to inform him, how to arrive to be a Vinegar-maer, but by a way of Comparative (for Notions in Phyfick fræquently (pring from that method) to the Blood, to illustrate its manner of recess from its Natural towards a Scorbutick Acidity. Wherefore first you are to apprehend, the Blood in its native Constitution is sweet, or of the Qualification of a Pingue Dulce, it's nitorous or shining, of an aqual

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Temperament and Mixture, imagine ad Julitiam, and not perturbated or coagulated, but Fluid and Smooth; by reason of its Volatil Salt is so Penetrative, and Instinuating (though when it's Tapt out by Phlebotomy, appears thick) that Quick-silver the most Instinuating of all Minerals is Gross to it; for it's observable, the Blood doth daily pierce to the most Intime and Remote Pores of the most compast parts of the Body, viz. Bones, Membranes, &c. Lastly, The Blood, though consisting of a Far and Uncluous substance, the Taste of it is Smart and Piercing.

It is in all these and more particulars the Blood in Scorbuticks doth undergo an Alteration. I shall begin with a short Comment upon its Acidity, unto which it gradually recedes from its Natural sweetness; but the kinds of Acids being many, it's requisite to assign, which of them this Distemper is

grounded on.

The Volatil Salt of the Blood fuffering any impair by depravation, diminution, or extinction, the natural Acidity of the faid Nutritive Liquor, doth acquire a prædominance, or sometimes an abfolute power, in the same manner as was afferted above, touching the change of Wine into Vinegar. If obtaining a prævalence, renders the state of health neutral, but if by conquest it hath got an abfolute power, denotes the temperature and mixture of the Mass of Blood dissolved, which onely happeneth in those, that die of old age. But suppofing, that upon the affection of the Volatil Salt, the natural Acid lieth exposed to injuries (read Chap. 11.) which during the intire Vinculum of both, it was defended from; then the forefaid Acid degenerates from its natural into a vitiated, putrid, or corrupt Aci' which ipfo facto doth confli-

tute a disease. This præmised, I affert, that a re cent, or confirmed Scorvey is the adaquate effect: of a putrid Acid; The others, namely auftere, or pontique, are causes only of melancholy, hypocondriac and mesariac distempers. Proof hereof may very well be made by arguments, defumed from the effects, that iffue from the causality of a putrid Acid. First we will examine the blood of Scerbuticks, which upon view I have fræquently remarqued, to be of a dull countenance, and in no wife: nitorous, of colour livid, or fometimes cineritious, or in others resembling the whites of Eggs, interspersed with opaque streaks; in point of consistency thick, coherent, conglobated and tenacious, being also overflown with a turbid serosity, of gust palpably acid, and here and there a nitrous Acid, both in scent and tafte, and at no time gratefully. acid; in initiated Scorbuticks the serosity discovers a crude, austere, or sometimés pontique Acid. The evidence here is strong, being demonstrable to one of the fureft Senses, viz. the Tafte, and that defumed from the Serum; which by reason of the Salts and Tincture it extracts from the humors, affords a most prægnant discovery of the constitution. and complexion of the Blood. But we shall infift no longer on that sense, but convert our discourse to experiment; instil a few drops of Spirits confifting of a Volatil Salt (viz. Spirit of Sal Armoniac; Cornu Cirvi, Soot, &c.) into a small proportion of: Blood; their effect will render it fluid, nitorous, ferene, of a most pleasing red, and rescue it from adiffolution of the Humors: But on the other hand, Acid drops, viz. of Nitre, Salt, &c. occasion immediately a Coagulation of the faid Humors, and a feparation of their ferum, leaving those in a turbid commixture, dull, opaque, cineritious, and of an D. 5.

ill whitish fleam colour. Whence we may rationally præfume, Scorbutick Blood fo exactly refembling what is impressed on any other Blood by these Acids Spirits, to derive its vitlated constitution from an Acid, which must necessarily be a putrid one. as shall be explained hereafter. In the next place, let's make inspection into the Characters of Scorbutick Urine, which for confiftency is uncertain. most times muddy, turbid and thick, sometimes thin and opaque; for colour, pale and whitifh, though in some few of a raw bloody colour, like water, where raw flesh hath been washt in; for contents various, fomerimes a copious fediment of an Ash colour, with a scum swimming on the surface like Tallow, other times a fmall sediment. By fcent is detected a particular flink, not like what's expired from other Urine. The causality of these qualities in the fore-mentioned Urin doth lie between an Alcalious Lixivial Salt, and an Acid Salt. The first contributes a muddy deep yellow, and fomes a faturated red tincture to the Urine, and therefore relating to fome inveterate Scorver, doth confequently lodge the faculty of engendring a Scorburick Urine of a recent diftemper in the latter, viz. an Acid Salt. Moreover, the fame Experiment of Instillation of different drops into wine, produces the same evidence it did upon the Blood. That this Scorbutick Acid is putrid, appears by its production and inseparable adhærence of a stink, for which a fufficient testimony may be taken from the breath of Scorbuticks, the steams that evaporate from their Bodies, the ill fcent of the Serum of the Blood and Urine, which all ffink abundantly. To make at! præsent any further conviction, that a Putrid Acid is the internal cause of the Scorvey, by deriving any more symptoms from its efficiency, will be superfluous,

persuous, sin regard, that will be singularly explained in the particular mention we shall make of them. The cause of a Putrid Acid shall be proposed in Chap. 11.

CHAP. VII.

of the Procatartic or External Causes of the Mouth-Scorvey.

A salivation excited by Mercurials, and accompanied with its usual attendants, is beyond all peradventure a Mouth-Scorvey; and for that reason Hartman and other Chymical Authors, affirm Mercurial Medicines pernicious, and altogether improper in Scorbutique Distempers; and consecutively to this Affertion, I have frequently observed, that such as have been obliged to make use of Mercurial Remedies against their Venereal Maladies, do ordinarily fall into the Scorvey, which sometimes proves more stubborn than the Distemper, which the said Mercurials were intended against; so that we must set down Mercury, to be one among the number of occasional Causes of the Scorvey.

§ 2. Gross fæculent and obstructive Diet, especially if overcharged with Salt, or rendred hard and compact with Smoke, as dried Neats Tongues, Bacon, Sausiges, Red Herrings, Dried Salmon, Hung Beef, &c. do not only contribute matter, but obtain also a peculiar faculty of impressing a Scorbutick Idea on it. Of the same nature are Melancholick

Isncholic Mears, as Beef, Pork, Geefe, Ducks, Salt Fish, and all other Fish, that are bred in standing Waters, as Eels and others; also Pickled and Marinaded Fish, as Pickled Herrings, Anchovies, &c. The next of the Non-naturals, that bears a great part in this morbifique production, is a Salin Air, rendred thick and conflipative by Vapors and Damps, Nitrous Evaporations out of the Earth, filled with putrid freams of Sinks, Gutters, Ditches, Muddy and Dirty Streets, and Sulphurous Smokes of Chimneys, flagnating and pent up between narrow lanes and corners, and feldom ferenated or purified by the rayes of a clear shining Son, nor fræquently ventilated with Eafterly briezes; and fuch is the Clime of London, where the Air is experienced close, dull, damp, salin and muddy, overspread with dense, dark, salin Clouds (attracted out of the Sea) for two third parts, if nor three fourths of the year; during which time the Wind feldom blows Easterly, or is savored with a smiling Sun.

§ 3. These two are accounted the principal external Causes; the former agressing the Body within, the latter without; but to which of these the sole causality may be imputed, hath been controverted between some Modern Authors, the one party, whose opinion induceth them to believe the Scorbut to make its first assault on the Blood and Animal Liquor, by entring the external pores, state the Air the chief and original efficient: The other, apprehending the Stomack and its Ferment, to receive the first efforts, proclaim Diet the principal Agent. In favor of the former sentiment, these arguments seem persuasive, i. The Scorvey being assented by most an Endemick Disease, which generally

rally derives its production from the Constitution of the Clime, infers a verdict for the Air : and. 2. This is further confirmed, by being also afteemed among the number of Contagious Maladies, which are univerfally communicated by Transportation of morbifique Miasms, whereof necessarily the Air must be the chief Vehicle, and consequently a more principal cause, than the other. 3. Symptoms hearing Characters more obvious to fense, offer an evidence very plain; wherefore if the Animal Faculty be the first sufferer, as appears by the Symptoms, viz. Lassitude, Drowfinels, Noise in the Ears, &c. and that the faid Symptoms of Laffirude, &c be perceived by the Patient, while his ftomack and its berment continue in their vigor, and exempted from any prærernatural aff. ction, then it's undeniable, but the Air is the primar Agent. Those who espouse the contrary arbitrement, affert the faculty of the Stomack to be impaired, and next after the Blood to be vitiated, before the appearance of any Laffitude, or other Animal Symptom; moreover, that the word Endemic, importing only a common Disease among people (from ev and Sing) doth not exclude the generation of a Discase to be from a Vitiated Diet, or any other Nonnatural. Touching its contagion, they affirm a Difease may be primarily engendred within the Entrails, and afterwards prove contagious: But laftly, whether the decision hereof be any whitmaterial, in relation to the Cure, is left to the Reader.

§ 4. The next circumstance that's worthy of inquiry, is the manner, how a viriate Dizt, or impure Air, doth cause an Acidiry in the humors. We will suppose, That a Salt Diet.

62 The Difease of London , or

* is the most common Efficient of the i. e. Salt Mest and Scorvey, which being ingested into the Brackish Stomack, doth chiefly act on the ungov Drink. Nervorum, confifting in a great proportion of Volatil Salt (whose office principally is, by contraction of the Fibres to corrugate the Stomack) and fpirits of the Arteries. It is then this extraneous Marin Salt, that attracts and absorbes the forefaid Volatil Salts, with the liquor they are contained in , in great measures ; and hercupon occasioning a great Drought, forceth the Stomack to cover vaft quantities of small drink; whereby the Stomack is immoderately cooled and relaxt; the forefald Volatil Salts rendred fixt, and Spirits drowned and extinguisht; moreover the faid Extraneous Salt having absorbed and attracted the Volatil Salts into its Centrals , they meet with the Acid, that's latent in its Bowels (as appears upon driving Salt Marin through a Retort) which through its contrariety to Alcalies, amortises the forementioned Volatils. The consequence upon this is, that the digestion is not perfected, and the contents not justly disfolved and coaquated, but remain crude and imperfect, whence must happen Crudities and Obstructions, which afterwards prove a Basis for all other Diseases to be establish on.

S 5. It is not to Salt, or other unwholfom Mears, we must solely adscribe this Scorbutick Effeet, but lay part of the charge on Drinks, that are used among us; in particular the Beer and Ale that's brewed about the City; the Water whereout they are brewed being absolutely brackish, or imbued with a proportion of Salt, though not so great as to be discovered by the Pallar. That Water containing a Tincture of Salt, is thereby capacitated to

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make the stronger Drink, is most certain, and for that reason, because the Water being somewhat brackish in England, and therefore making the frongest Liquor, it's thence English Beer is reputed the best and strongest in other Countries. Confequently to this remarque, I find, that Beer or Ale brewed out of Thames Water, is more vigorous and fpirimous than what is made of other Water, because the former by having a commerce with the Sea, is more falin; and thence it is also that North-down and Hull-Ale exceed Thames-Ale in Strength, as being nearer to the Sea. This may likewife be confirmed by the practice of some Brewers, who to render their drink the stronger, do commonly fling fome small quantities of Salt into their Brewing; wherein exceeding fometimes a due proportios, dorh impress so great a seasoning on their Beer or Ale, that it's manifeftly perceived brackish by those that drink it. The reason of this fort of process is grounded on the infinuating and attractive Vertues of Salt, attracting the intire life and foul out of the Malt. Neither are Chymifts ignorant of these attractive faculties, who when they are to extract a Spirit or Oyl out of Aromatics or Cephalic Herbs, generally diffolive a handful or two of Salt mo the Water, while it's in digeftion. Apothecaries do also experience, that Roses lying a few dayes in falt, yield a water much more odoriferous, than if diffill'd off fimple. These instauces are produced to make proof, that the water of London is falin, and confequently highly fcorbutick. But probably an Objection may be flarted, that though Thames Water from its communication with the fea, may be suspected salin, Why should other Waters whereout Drink is also Brewed, be afteemed fo? To this I answer, That the Air of.

64 The Difease of London, or

of the City being perfused with falt Clouds, attraated out of the Sea, (which is no great diftance thence) doth sufficiently imbue it with that Tindure : moreover, the Earth over which those Waters stream, contributes to it a faltness, being brace kish, as may appear to any ones Gust, that will adventure to tafte it ; now that Clay Ground , and other forts of earth, do exude or fweat out a Salfugo, or faltness, is abundantly manifested in falt pits; and undoubtedly the pit-water which Cafars. Army made use of for two years together, when they were quartered near the Rhine, fourced from a falt pir, though not so much imprægnated, as to be diftinguisht by the Palat, or at least the forefaid Water was imbued with some Mercurial Vapours (but the former is more probable) which afterwards gave them a disease like the Mouth Scorvers they being subject to a Vacillation and claps of their teeth, with pains of their Gums. One fort of Water we have not yet taken notice of, which is of standing Pools, as that is reported, whereout that Liquor is brewed, which goeth by the name of Shoreditch-Ale, for strength being superlative to all other. No doubt but Water by stagnating, doth contract a putrefaction and faltness, which being thorowly allayed with the Cream of a fat brackish Clay, is naturally præpared to Brew thick fat Ale; whence that water is vulgarly termed ftrong bodied, whereas fpring water is accounted thin weak water. and not capable to Extract the intire strength of the Malt, as the other is; which is true enough spoken. This Discourse doth also infer sowr Beer, or Ale, to be very pernicious, likewise decayed Wines.

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6 6. Among the next relating to both the præceding Branches, we must impeach Gluttonny and Debauchery, for two grand Scorbutick Abettors. The former by imposing too great a burden on the Stomack, doth fo much obtuse the Volatil Salts. that the Acid thereby gaining a prædominance, and thereupon foon growing putrid, occasioneth Crudiries and Obstructions, and so an inlet to the Scorvey. The latter refers to excess of Drinking ftrong Liquors, particularly French wines, through which the Stomack suffering fræquent inundations, their Spirituous and Volatil particles are attracted Crude, and Undigested into the Vessels, which in a short interval of time, Obnubilate and drown the Volatil Salts of the Nerves and Arteries, as not being fufficiently præpared to be Affimilated to them; and these Efforts being oft repeated, do at last Vitiato Evaporate, and Amortize the Spirits. other hand, the Liquor that's remaining in the Stomack, is left Acid and Acrimonious, in the same manner as was Inflanced in the making of Vinegar.

5.7. From what is here discoursed, relating to the manner of a Salin Diet occasioning a Scorvey, may easily be collected, how a Salin Air operates the same effect, viz. By entring the External Pores, and being inspired down by the Lungs, doth assult the Vital and Animal Spirits and Salts. 2. By contracting the Pores through its Exiccative and Absorbing quality, and constipating them by its grosses and crassitude of substance, whereby reverberating and locking up within the Body the sulginous steams, that stifle or smother the Spirits, and six the Volatil Salts, in manner, that they assume the Nature and Quality of a Marine Salt.

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Upon this prælimitated Explication a decifire touching the controversie in Par. vii. may easily be attempted; viz. That both can be admitted principal Efficients in the Scorvey; for many though observing the exact Rules of Diet, have notwithstanding by living in a Salin Air, contracted the Scorvey, which as hath been copiously expounded, is sufficiently qualified to produce the Distempers fore mentioned. Moreover those that derive the Scorvey from a Contagion (which hath been of observed) do attract the Scorbutick Seminaries and Miasms through the Asr, without the least concurrence of Diar, as having been regular and wholefom. On the other part, a Salt Diat continued for some proportionable time, hath engendred the Scorvey in such places, where the Air could not be suspected ill, and of this there are examples numerous enough; but waving that, I will evidence it in a Præfident, that is more fræquent, and of a shorter production. Drunkenness in such whose Blood is not apt to be kindled into a Fevor, hath

in a short interval occasioned an universal lassitude and weakness in the Knees, Spots and Blotches about the Legs and other parts of the Body, Laxity, discoloration, and soreness of Gums, pain and looseness of the Teeth, a sowr stink of Breath, the which Symptoms do plainly declare it to be the Scorvey, and that produced without the suspicion of an ill Air. So that either may be aftermed a principal efficient, though where both do concur as principals, there it occasions the Scorvey to be Endemic; but where it is contrasted from either singly, there it's Sporadic.

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CHAP. VIII.

of a second different internal Cause, being the cause of some Leg-Scorveys, and many or most Terminatory Scorveys; namely, Saponary Blood.

The Tenor of the next praceding Chapter implies a Putrid Acid, pradominating over the Volatil Salt, to be a cause of one fort of Scorvey; here we intend to propose a Scorvey different from that, wherein the Volatile Salt being vinated and augmented in too great a proportion, over ballanceth the Natural Acid, and produceth a Constitution of Salts and Humors, likewise Symptoms, that are absolutely Scorbutique, but of a secret and more malignant quality. By the way, I must

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must prævent my Reader from any hæsitation, wherein it may appear strange to him, that Symptoms that bear the same countenance, should be derived from two contrarily different Causes. As to this, it is an Observation evident enough in other Diseases; for instance the Colick is sometimes occasioned by Billious Lixivious Humors, corroding the internal Tunick of the Guts, in which case they usually suffer a Contraction in Longitudine; sometimes it's caused by an Acid statuous phlegmatick Humor, and here the Guts are affected in Latitudine. On the former is imposed the name of an Hot Colick, and on the latter a Cold Colick; the same may be also observed in Pleurisies and many other Distempers.

- § 2. The Constitution of the Blood in this kind of Scorvey is far different from what it is in the other; for here the Blood runneth into a thick coharent Fluor, like Syrup, doth not coagulate or concrease; but continueth in the same form, without the separation of the Serum, that in the other commonly floats on the top. The difference is likewise in colour and taste; here the Blood appears in a purple, and to the taste is Lixivial and Acrimonious. Touching the Symptoms; the Acid Scorvey exercises its sury most on the parts above the Navil, the Alcalious Scorvey, chiefly on the parts below, what farther distinction is remarkable, you shall read elsewhere.
- § 3. Certainly it was a great Hallucination in Sennertus, but far greater in others, that have wrote fince on that Subject, to prætend an Acid the cause of Pendulous Blood (a term the Recentiors have borrowed from the fore-named Sennertus, though

though ill verted into English Roapy, as hath been animadverted before) which rather causeth a Coagulation, as appears by Experiment, upon instilling Acid drops into Blood or Milk; and yet this deid is so abominably stretcht by a late Author, who obtaining a particular knack of writing a Story smoothly, doth endeavour to adaptate it to Symptoms in general of all sorts of Scorvey; whence I find, neither he, nor those that harbour his Notion do arrive to a success of curing some Leg-Scorveys, aqual to that of the Mouth-Scorvey, but are oft render'd infinitely worse.

- 5 4. The cause of this thick incrassated coherent Blood, that if poured into a Porringer, hangs in fort ropes or long drops, like Balfom or liquid Soap, when poured off, I impute to the fixation of the Volatil, which united to the Fixt Salt of the Blood, doth alcalize and calcine it, whence affuming the nature of other Calcined Salts (as Salt of Tartar and Nitrum fixum) doth attract and abforb the Serum of the Blood, and some moisture out of the Air, whereby that and the whole mass is turned into a Deliquium, and so becometh thick (the Serum being absorbed) coherent and pendulous; because part of the Blood is naturally glutinous, which being tied closer together in its particles by the absorption of the thinner and serious parts, must needs prove pendulous; of a taste lixivious, because such all Calcined Salts appear to the Palate; and of a purpre colour, because the Blood is adulted from a florid red into blackness.
- § 5. That the Blood of these Scorbuticks, which are here mentioned, is qualified in the manner described, will appear to any, that shall give them-

selves the trouble of examining Scorbutick Blood when occasionally extracted by Phlebotomy; but least such as desire to be satisfied in this point, have not a ready opportunity of examination, we will endeavor to convince them of this truth by experiment. Take Blood that's found, and poffs bly extracted for prevention or abating a Plethory, infil into it Spirit of Sal Armoniac, or of any o ther Volatil Salt, it fhall præferve it in its fluor, colour, confiftency, mixture and other qualities, until it be evaporated, and then the faid Blood by coagulating into a Mass, will separate from its St rum: But if instead of this, you affuse a small quantity of Calcined Fixed Salt, that's runned into a Deliquium, it will incraffate the Blood, change it into a deep purpre, render it pendulous and lixivial to the tafte. After all, proving the particular Symptoms to iffue thence as proper immediate de fects, will crave an undeniable conclusion; but that shall be referred to a further inroad into this Discourse. I must not retire from this Subject, be fore I give the reason, why I have named this son of Scorbutick Blood, Seapy, or Saponary; namely, because like Soap confisting of Takow and Lixivial Salt, the Blood in this kind of Scervey, is also composed of a deflagrated incrassated Sulphur and Lixivial Salt, both commixt and united into one Body; but how and through what causes it ! rendred to Soapy, shall be told you in the next Chapter.

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Of the Procatartic Causes of Lixivial Alcalized Salt, in Scorbutique Blood.

THE Fixt Salt of the Humors is the Original and Conservation of the Volatil, for (according to one of the Hermetick Theorems, formerly recited) a Subtil Sulphur penetrating into the peres of the Fixt Salt, closely knits it felf with its particles, and being of a fubliming nature, that is derived from the igneous minims it contains, doth levitate, sublime and volatilize the said Salt. Experiment doth affert this a certain truth; affuse Spirit of Wine on Calx Vive (which beyond all objection is pragnant of Fixt Salt) after a short digestion, abstract it, and some part of the Fixt Salt will be volatilized and sublimed with the Sulpbur of the forefaid Spirit. Possibly here may be demanded, how doth it appear any of the Fixt Salt is volatilized ? Hereunto I answer, 1. By the Tafte, the aforesaid Spirit proving more igneous, vibrating and pungithe to the Tongue. 2. Spirit of Wine, by reason of its Sulphur, is inflamable to the last drop; but being united to this Volarilized Salt, doth very difficultly receive a flame, or when inflamed, will scarce continue. One Experiment being too scanty, I will offer you another. Volatil Salt of Amber is fixed by abstracting Spirit of Salt from it; and being fo fixt, affuse on it Spirit of Wine, digest them a while, and then abstract the Spirit of wine from

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from it, and you shall find the Fixt Salt volatilized again. Hence I inser, 1. That the Fixt Salt is not only the original matter, but also the sole conservative and nourisher of the Volatil, by yielding new sublimable parts. 2. That the Constituent principles of a Volatil Salt are a Sulphur and a Fixt Salt. This being allowed or at least præsupposed, doth detect the manner, How a Volatil Salt is fixable, viz. by divelling the Sulphur from it, or stripping it of in force and efficacy; so that those externals that as against the foresaid Sulphur, are to be æsteemed the Procatartick Causes of rendring the Blood Scorbutiek, and of lixiviating its Fixt Salt.

6 2. The same remote Causes, which in one of the præcedent Chapters were declared Efficients of a Putrid Acid, are also impowered to lixiviate and alcalize the Fixt Salt of the Blood, though not in the same manner, or univocally, but per accidens, and aquivocally; so the Sun is virtuated to produce contrary effects æquivocally, in engendring Cold and Hot Bodies, moist and dry. A Salin Diæt and Salin Air, by vertue of their Salt Marin, do absorb and concentrate the Sulphurous minims of the Blood, which being inflamed, and rendred corroding, partly through its own nature partly by its union and amplexe, of the Salin parts, and being withal thereby Fixt, are both pracipitated to the Fixt Salt of the Blood, where unto also uniting, do all become Soapy and Lixivi-Secondly, The Fuliginous Salts, that are too copiously occasioned in Saline Scorbutick Ebullitions, are a principal cause, but for a more ample fatisfaction I refer you to Chap. . How greatly the familiar fipping of Brandy and other adust Spirits, do contribute to the inflaming the Sulphurous particles

Ucles of the Blood and lixiviating of it, is sufficiently obvious; likewise that suming Tobacco, under the notion of concentrating and fixing the Sulphurous and Volatil particles, doth lixiviate and fix the Blood, needs no farther proof.

§ 2. Least I should leave the least scruple, that might induce the Reader, to suspect the contents of this Discourse, I apprehend it expedient, to remove this Objection, which is offered by way of Quary, How can a Salt Diæt or Air, or rather Sea Sile, occasion two contrary effects, viz. of rendring the Blood Acid, and Lixivial or Alcalious. hinted before, that these effects are derived in a various manner, to wir, an Acidity is caused, as was explained formerly, by the separation of the Volatil Salt and Subtil Sulphur, which is an effect per accidens; an Alcali is impressed on the Sale of the Blood, by an effect the Marine Salt produces per fe; for through its igneous faculty, and efpecially when it's tumid with the absorbing the Sulphur of the Blood, it alcalizes the Fixt Salt. 2. The fore-mentioned Marin Salt is not only naturally fiery, but vigorously augmented in its igneous quality, by its conjunction with Lixivious Salt, or Excrementations Choler, that naturally ought to be separated and evacuated by the Gall Bladder and chalidochus, whose passages in a confirmed Lig-Survey are commonly for a time constipated, the Excrements of theGuts through their paleness and liver fignifying as much; but withal observe, that the cifiu Bilis and Ductus Cholidochus continue obserated only for a certain space; for afterwards the forefaid passages are forced open, by the abundance of giols lixivial Choler, which then impresses a deep red Tincture on the Excrements of the Gurs. Further

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thermore observe, That commonly the Mouth-Scorvey præcedes a Leg-Scorvey, and seldom do both invade the Body at the same time, but one upon the neck of the other; so that if the Mouth-Scorvey continue any considerable space, the Leg-Scorvey must necessarily sollow.

5 4. Observe likewise. That some continual and intermittent Fevors, especially Quartans, do some times exchange into Alcalious, but no Acid Senveys, as by their internal Caufes and Symptom, which the deep red Tincture and vehement flink both in Urine and Ordure, likewife a very faline Sweat and Spittle, do attest lixivial, is evidents edeclared; and that which doth positively evict the cause of these kinds of Scorbuts to be Alcalian and Saponary, is their Cure, which is chiefly to be performed by Acids, as Spirit of Salt, Antimon, erc. and by Subtil Sulphurs, and Volatil Salts; but in no manner by Fixt Alcalies, upon which a irreparable detriment hath oft enfued. Laftly, To prove the undeniable truth of these Observe tions, the vulgar management of Sea-men (who are out upon long Voyages) in their Scorvers, which fo inevitably they are incident into, using nothing but Acids, as Spirit of Salt, Juices of Oranges as Limons, wherewith they are abundantly flored, tells us, it's an Alcalious Saponary Scorvey they at fubject to, against which an Acid is the diamentcally contrary Remedy.

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CHAP. X.

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Comprizing the Examination of Scorbutick Principles proposed by a late Author.

& 1. A Gainft what is afferted in the two laft præ-A ceding Chapters, nothing of moment embe farther objected, than the authority of our Oronian Author, who for his learning, concile, frooth and elegant mode of Writing may justly be diracterized the English Fernelius, asteeming withthat he hath in some sense surpassed Engalen, Salemon Albertus, Wierus , Sennertus, and the reft, that have treated on the fubject of the Scorbut; and among those his other superlative qualifications. I auft also take notice of his Modesty, not perempeorily afferting, but like a carteflus affirming only a probability of that, whereon his whole subsequent Discourse is grounded as its Basis; Tract. 2. de Scorhate, Edit. Amsterd. fol. 230. where the words run thus, It's probable, that the Blood in the Scorbutic affillion is altered, in a manner not unlike Wines, that grow Rancid or Roapy, as oft as they are over-heated (that is over-fretted) for this is an argument, that that Difease doth not append so much upon Dregs, mixt with the Blood, as on a habitual intemperament of the Blood : because a Radicated Scorvey is so difficultly cured, and sometimes never. Moreover it may be fated, that the intemperament of the Blood, which is the parent of the Scorvey, is two-fold, as it is in Dine, namely Sulphurous and Salin, and Salin and Sulphurous. The whole Theory of the Scorvey is E 2

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by the Author fore-mentioned briefly fummed up in those few lines, which to examine, is the chief affair of this Chapter. First, He tells us, It's prabible: But why is it probable? Because probably it feemed to in fome inconsiderable little Analogies and Refemblances: I may as well affirm, that it is probable, his Horse is a Mare, because viewing him at a distance, he seems like one. Certainly, he that by too much stretching of the Cloth . endeavors to make all forts of Habits and Shapes out of it, must necessarily make a very incongruous Suit. This our Author hath practifed in moffet his Tracts, abstracting Notions from Wine to illuftrate his Theory of Diseases; as first in relation to Fevors; because Wine is apt to be fretted, its probable the Blood is also subject to a fret; whence a necessary conclusion is drawn, That the Blood & fretting is either a Fevor, or rather the cause of Fevor; but A probabili ad necessarium non valet confequentia. Neither doth the fimilitude quadrate the one being a derivative from a Vegetable, that paturally is disposed to the foresaid alteration; the other from a Vive Animal, that when declining into Fevor, is præternaturally affected. Moreover this fretting quality that Wines are incident into, is only of one kind; but the frets or fevors of the Blood are various and very different, as Quotidians, Tertians , Quartans , &c. Secondly , In relation to Convulsions, because the Blood is disposed to free in all the Vessels of the body, it's probable, that in the fretting of the Nervous System , it doth impe heterogeneous Copula's and Explofive Particles into the Liquor Nervosus, and irritate the Nervous Sy-Reme to an explosive motion, through which a Spamodic affection and a præternatural Diathefis of the brain, are occasioned. A pretty kind of Rhetorick CX.

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exchanging the old fignificant terms into those that tre obscure and aquivocal; however these Probales might very well be admitted, especially being garnished with those pretty affe ded Phrases; provided the Phanomenon and refemblance were: fomewhat more parallel, and conform to Experiament; from which that they are infinitely different, Ishall particularly instance in the comparison of Rancid and Reapy, or rather Scorbatich wine (forsuch he would have it to be) with Scorbutick Acid and Scorbutic Lixivial , and Saponary Blood. Wines by overfretting become rancid, is agreed on by all Wine-Coopers, which in their usual phrase, they do not term rancid , but fay , It taftes of the fret, that is, Fuliginous, Empyreumatic, and Piquant, but not Acid; neither when they are overfretted as much as they can be, do they immediately tafte otherwise than what is set down. Their Cure is performed, as he fets forth, by being drawn: off the Lees; which in a plainer way is to be underfood thus; if it be observed, that Wines are indired to fræquent frettings, or over-frettings, as all Wines are in the Summer feafon, especially if lying in a warm Cellar, to prævent the former, they endeavor to cool the place, where they lie, by flopping up all the Lights, and oft dashing cold waterover the Floor. The latter, viz. Their aptness to over-fret, is remedied by pouring a proportion of new Milk to the Wine, or Ifon-glass diffolved, or other materials that are impowered to appeale, allay and sweeten the heat and fury of the Sulphurous Spirits; but when Wines are absolutely overfretted, then indeed to draw them off the Lee, is the next remedy. The cause of an over-fret or rancidness, he afferts to be an imbodying or coagulation of the Sulphureous particles with the Salin; fa .

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as the former exceed the latter in proportion. This Atielogy may eafily conduct the Reader into mistakes, supposing the Constitutive Principles of Wine, viz. The Sal, Sulphur, and Mercury, to be diffinctly contained therein, whereas it must be conceived, they are so intimately camented toes. ther in their minimal particles, that there is not the least drop, but contains the foresaid principles is its leaft individual phyfical particle, fo that you are not to imagine, that in Wine, that is thus declining, the Sulphur swims in one part, the Spirits in another, and the Salt in another, but that the Subtiler Salt, Sulpher, and Mercury, being united into one, do abloede from the groffer, into what room and cavernicles, external heterogeneal principles succeeding out of the ambient air, occasion fuch various alterations, as render the Wine rapcid, roapy, &c. Those Heterogeneous Corpuscia, if they are fulphurous, as in the Summer feafor they generally are, then they alterate the Win into rancid; if more gross and falin, as at other feafons they are, it becomes reapy. But Wines be ing subject to these alterations in all Climes, and he mane bodies onely in some particular forts of Air, which therefore (rogether with a vitious diar) reder the Diseases thereof Endemic ; this alone is a Argument sufficient to evince the Alterations of the blood and wine nor to be comparative, and confe quently the Simile to be dissonant. Secondly, Sup pose the Simile allowed in Fevors, that as Wines fretting are indued with an intense heat, through the exaltation of their Sulphur, fo the blood free ting is attended with a dyscratic or intemperate hear, which for the præsent shall also be allowed the name of a Fevor; then consequently the blood must be deemed Scorbutic, because rancid; for Wine during

during their fretting are ever rancid, and tafte of the fret; and so all compounded Liquos, as Beer, Ale, Metheglin, &c. whilst they are working, are sancid.

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6 2. The abfurdities that follow the Hypothefis. That there is no moving living Creature, but is troubled with the Scorvey in one part or other ; for whilst the Chyle is fermenting in the Stomack, or the Blood freeting in the Vessels, which according to the dictates of Fermentators happens at all times, they become rancid. 2. In France I find Revors more frequent, than in any other Countrey, which in the fense of my Author are all attended with fretting, and very probably some with overfiending; yet I could never observe any there afflicted with the Scorvey, and if they are, I am cermin they have no proper name for it in French. 3. That all Hears, Spots, Blotches, and Puftles, that burft out into the Face and ambient skip, upon efretting of the humors, are Scorbutick Symptoms, 148. 034. 1. 3, 4. which many Wine Drinkers are inspect to in many places, where the Discase and mme of the Scorvey are as little known, as the Man. in the Moon. 4. That the fore-mentioned Scorbutic Eruptions, are onely fafely cured by Remedies, that demulce and lenifie the incongruous Ferment (as it's filled fol. 340. 1. 18. which is expressing in ignotum per ignotius) fuch are Starch, Gum Arabic, Gum Dragant, &c. These I am affured, never yet removed Scorbutic Eruptions, I cannot tell what they might operate at Oxford, and the Market Towns about it, where Scorveys are not fo numerous, as to abstract observations from them, sufficient to teach the world a new Doctrin of Scorbutic Dyfcrofies, and Copula's. But this I dare declare

for a truth, that real Scorbutic purpre, and yellow, fome red blotches and puftles, I have removed, and known others to do the like, only with Antiscorbytic Volatils; which manner of cure doth in no wife square with the Notion of Rancid blood. However it must be assented, that many Eruptions, such as are recited in p. 234 have been extermined by Coptemperative Medicines, and Bleedings; but then they were not of the genuin Scorbutic isfue. ma, admiffo absurdo uno conceduntur mille. that have been disturbed by an Overfret, do seldom long continue only Rancid, but after a short interval, are incident into a Putrid Acid, far diffe rent from Vinegar, and in that particular, may more exactly square with Scorbutic blood; but it is not from Emplastic Lenients these Wines receive the least Rectification, for through them they are rather rendred far worse. For the removing this fort of dyscrasy, coopers experience the scenting the Cask with Brimftone, to be very effectual in manner following; They dip a Linnen-rag into melted Brimstone, which being grown cold and coagulated on the Cloth, is kindled into a flame, and hung through the Eung-hole into the Cask, until the flame be burnt out, and upon that the bung-hole is stopt up close again ; for the same purpose Lime, burnt Allom, and other materials, that are pragnant of an Alcalious Salt, are commonly used. 5. Upon the concession of the Authors Rancid Hypothesis, the blood of Scorbutics of that degree, ought to appear smoaky, sooty, empyreumatic, not easily coagulable; on the contrary, it's observed Acid, coagulable, ill coloured, &c. I will conclude this branch with a Caution, That all Innovators ought rather to Demonstrate their Notions à Posseriori, that is, they ought to invent and illustrate the Cause, by the Effects



fects and Symptoms, and not to invent Notions of Causes, and by their Virtuality, or by what they probably scem capable to act, to assign their Essects; for that is oft contradicted by Experiment.

\$3. The other Branch falling under our confideration, is the Roapiness of Wines, wherein the coopers generally observe a Gradation of Alteration; for first they begin to Pall, and grow Flat, next they fall into Clors and Lumps of Gelly, and then they fay, the Wine drinks tender; at laft, their Clots running into one, causeth the Wine to become roapy. This the worthy Author affirms, is occasioned by the association of a lesser proportion of Sulphur, with a greater of Acid Salt, or Tartar. Is an universal remarque, that Sulphur and an Acid Salt, without some other Intermedium, that is amicable to both, are infociable; for affuse a menstruin purely Acid (4s Rain water acuated with Oyl of Vitriol, Salt Nitre, &c.) to Sulphur, and digeft it ad infinitum, no Tincture shall be Extracted, but upon the least digestion with a Lixive, or any Un-Atuons Liquor, the Sulphar yields its whole body, and entirely unites. 2. It's averred , pag. 234. 1. 31. That Roapy Wines are reduced by fixt Alcalies ; which on the contrary, I know some that arrive to their Mark, by dissolving Roch-Allow into them, that by all is agreed to be an Acid, and consequently doth fubvert this Reapy Hypothefise 3. The blood : of those Scorbuticks, that contract their Distemper on a long Voyage; at Sea, must be allowed to be : either Rancid or Roapy. That it's the latter, the Symptoms mentioned Tract. de Scorb. pag. 234. 1. 21. 22, 23: declare, viz. Curaneous Eruprions, Sloath of Limbs, Difficulty of Breathing, &c. with which Scorbutic Sea men are fufficiently infeffed. E 5 The The remedies used successfully by them are Acids, viz. Juice of Limons and Oranges, Tamarinds, Spirit of Salt , &c. on the contrary , they experience Spirits of Scorvey-grafs, of Sal Armoniac, and others of that nature Detrimental. The Argument collected hence à Juvantibus, which are Acids, evinces their blood to be Alcalious and Lixivial. that I may fafely conclude, that our Anthors Hypethefis is not only erroneous, but too scanty, fince it only appoints Contemperatives, and Volatil Alcalin for Remedies; and those being mis-applied (as too frequently happens) are unpowered to render the Difease far worse, and provedt it into a Terminative Scorvey. 4. I discover a great Contradiction, in il. lustrating some Alcalious and Lixivial Symptoms, to proceed from Acid causes, viz. Pendulous blood, which though not agreeable with his supposal, he afferts that the lixivial parts abfeede from the blood, by being dissolved in the Serum, having quite forgotten his Pendulous Acid principle. Thus I read, pag. 256. in Sign. 8. the Atiology of Lixivial Urin expounded, which Paraphrase is no where received, but in the Latitute of 51 1. 5ly. To evadeal Objections, and to render Notions more plaufible, his Discourses are observed, to be armed with a Quinary number of Principles, viz. Spirit, Sulphu, Salt, Water, and Earth, by which to illustrate the Nature of Bodies, will prove as superfluous, as (in his own phrase, p. 3. 1. 28. Diatr. de Ferment.) to fay, 1 House doth consist of Timber, Wood, Stones, Brick and Lime. For a Spirit being a composite of Salt, Sulphur, and Mercury, fignifies it self to be a Principis. tum, and not a Principium. For proof, I offer the most Alcolized Spirit of Wine, which in the process of Spiritus Calcis, being oft abstracted from Cals Vive , its Volatil Salt (which formerly I have demonftrated

monstrated to be Fixt Salt, rendred Volatil by the admixture of Sulphur) is refixt, and detained by the Alcali of the Calx, fo that at last nothing passes the Alembic, but a pure Lymph; whence it's evident a Spirit is a Compound, and no Principle, which ought to be Simple. The next multiplication of Principles is the Stating Earth, and Salt, different Elements, which in effect are realiter the fame, though of diffinct Nomination. Earth is an immature Salt, which by Digestion easily passeth into a Sillo body. The terra damnata of Vitriol affords an indubious Argument for Evidence: This though very well washed from the Fixt Salt it contains yet being exposed to the warm Sun for some long time, and then washed over again, yields a considerable quantity of Vitriolat Salt, which that it is not atmaded out of the Air, but engendred by Digestion of its Substance, appears by the diminution of weight of the faid Terra damnata, after it is washt. So that she difference between Salt and Earth, is no other than between Stone and Brick, or a Hsprogeneous Copula, and an Incongruous Ferment.

CHAP. XI.

Containing Practical Observations praliminary to most Scorveys.

\$ 1. The Practical Observations which I do here propose, will render Obvious to you, how the blood declines into a purily Acidity. It is a temarque I have at fundry times made, that some bodies, before they expressed any Sign or Character

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of being molefted with an Acid Scorbut, undergoz mart Ebullution of the Liquors in the veilels , depending upon an accention of the Spirits, and deflagration of the Bluminous Particles of the Blood, whereunto some Catarrh, Rheumatism, Lassitude, Pain in the Head or Bowels, or some other Symproms, are attending, which render it dubious, whether this fort of Fevor be Effential or Symptomatick; however Antifebril Remedies, as Bleeding, Purging, Contemperatives, and Sudorificks are praferibed, the success whereof in the space of three or four dayes, commonly amounts to the abatement of the Fevor and other Symptoms; though not to a perfect restirution of Health, the Patient for some fhort time possessing only the condition of a neutral State; hereupon manifest Scorbutic symptoms begin to take up their quarters with him, as Laffitude, Sloath in Motion, Difficulty of Breathing, Indigeflion of Stomack, Interrupted Sleeps, and Difturbed with Dreams, Spots, Blotches, and the like.

§ 2. The content of the præmised Paragraph I do affirm to be the Morbifique transaction in some, though in others I likewise observe, that the præceding Ebullition, or Tumultuation of the blood is not so vigorous, as to cause them to think more, than that they only are a little out of order, and so the Juices of the Vessels detumefying, leave them in a kind of neutral state; which manner of Ebullition and Intumescence oft returning, increasing and decreasing, doth at last result to the same Essect, as if it had been as smart, as what is above described. These are certain and true Observations, any Physician may make on bodies, before the Scervey declares. A third observation I shall subjoyn, after the Explication of the two sormer.

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By these przyious commotions the blood is grown extreamly Turbid and Difturbed in its parts, mixmre, confiftency, nitour, fapour, and other quafires, like Water in a River, that's grown muddy and thick upon a fform, raising those impurities, that lied on the bottom. Now the faculencies and Acid tartarous humours, that by flagnating in the Veffels of the Mesentery, and other remote parts, being raised, and commixt with the Mass of blood. chook up and extinguish the Spirits and Volatil Salts, damping withall the flaming of the bituminous particles, upon which the Ebullition ceafeth. The cause of these Ebullitions is the saltness, induced into the humours by a Salin Air and Diet, which obtaining a power of condenfing, and conpregating the Spirits or Volatil Salts, and fulphurous or bituminous particles of the blood, cause an acception of the forefaid Volatil Saits and Sulphurs. whereunto by conflipating of the Pores the gross Salin Air doth also very much contribute. conflagration the Volatil Salts are in a great part diffipared and confumed, the other part flifled, thoakt, or extinguisht by the rifing of the Acid falin dregs, whereby the whole Mass is not only turned Acid (how the diffigation of the Volatil Salts occasion an Acidity, you have read before) but grows putrid Asid by the commixture of fulltinous acrimonious Salts, that through the forefaid chillition and conflagration are occasioned, and through the constipation of the Pores repelled into the blood. The cause of the latter Observation may eafily be collected, from what is here fet down touching the former.

^{§ 3.} A third remarque taken from Scorbutics is, that many gradually and infenfibly without any fach

fuch pravious Ebullitions, as are above mentioned, undergo an alteration in their Temperament and Faculties; first observing a sloath in their Limbs, nauseous spitting in the morning, an ill brass take in their mouth, crudities and imbecillity of Digestion; afterwards do succeed Spots, Laxity, and Dicoloration of Gums, stink of Breath, and so the resist order. The Cause of this sort of morbifique progress is the blood, gradually declining to a punid sheet, in the same manner as hath been explained

in one of the fore-going Chapters.

Though the first of these three Observations seem to have some resemblance to the nature of Rancia blood, occasioned by Fretting or Fermentation and the manner of Cure appointed in the oft cited Treatife de Scorbuto, to be performed by Demalcers of the blood, as Phleboromy, and Contemperatives : upon a more deliberative confideration, you will conclude their difference almost contrary to each other; for, I. All Ebullitions, especially that expressed in the Illustration of the foresaid first Obfervation, are not Fermentations. 2. The Oxonias Author infers all Rancid blood Scorbutic, though it be still on the Fret, which is greatly erroneous, the Scorvey being a Chronic or long tadious Difeale; this a pravious diftemper, that is foon removed, or at least altered into a contrary Intemperament, viz. From an Acrimonious hot, to an Acid cold Difease. 2. The foresaid notion is highly dangerous, and oft proves fatal, in deriving thence a method of Cure; for forming indications, that this being a hot sulphurous distemper, lenient and cooling remedies are indicated, which if long continued after the Fermentation is quieted, and an Acid difposition introduced, do render the Disease incurable.

\$4. It is only in some, that this Ebullition is a gracusfor to the Scorvey, whereas the Notion of Rancid blood doth infer all Scorveys, that are not depending on pendulous blood, effects of an immoderate Fermentation.

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CHAP. XII.

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Declaring a further Illustration of a Saponary Leg-Scorvey.

6 1. T Have formerly observed, that an Acid Scar-1 vey, upon a long continuation, changeth inma Saponary Scorusy, which as was hinted before, is the cause of some Leg-Scorveys, whose symptoms, are Inflamed, Tumefied, Corroding, Phagedanic, Cancerous Ulcers, hot burning and pricking Nocturmil Shin-pains, fræquent glowing of the Calves of .. the Legs, and Plants of the Feet, an Eryspelas Phlegmonodes of the Legs, falln pungitive Rheumatilms and Defluxions to the Perioftium of both the Folis s besides a saturated Lixivial Urin. a suliginous foul flink of the body; the blood when extraded by Phlebotomy appears of a deep inflamed Subpurpureous aspect, besides many other Symptoms, all which to any Judicious Physician are sufficient Testimonies of an Alcalious constitution of Humours. But this is not all; for the blood in this case is not only Alcalious, but Saponary, as now will be made apparent to you. There being a large proportion of impure Sulphur, or groß bituminous. particles, mixt with the humors in this degree of Scorvey, the Alcalions fiery Salts do eafily attract, collicolliquate, and unite them to their own Particles. which absorbing the Serum in a great measure, must needs render the blood thick, cohæring, and a little obductible.

6 2. That the bituminous parts of the blood are fo apt to be united to the Fixt Salt, is evident from the ready commixture of Tallow, Train Oyl, or other unctuous bodies with Por-ashes in the Composition of Soap, from the resemblance whereunto (as formerly hath been intimated) I have termed the fore-mentioned conflicution of blood Soapy or The same promptness of Unition several other Chymical præparations do likewise confirm, as in particular; the Ebullition of Sulphur with the diffolution of Salt of Tartar, fixt Nitra or a Lixive of Calx vive, in the process of Lac Sulphuris; also in the præparation of Hartman's Sulphur of Antimony, where the Antimony being fuled by the violence of a ventous Fornace, and inftilled into the deliquious Oyl of Tartar, its Sulphurous parts are immediately Imbodied with the Alcali of the forefaid Tartar. Whence we may plainly col-:lett, that in our Authors Pendulous Diathelis of the · Cruour, which by him is supposed to be Acid, there is no probability of their ready Coalition. And after all, I must tell you, that the blood in that fort of Scorvey, which is not Rancid, as he terms it, is not absolutely Roary or Pendulous like Syrup, Barbsdoes Triacle, or Therebinthin, as the Oxonian Profes for intends it, but far different.

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CHAP. XIII.

Of the Causes of Scorbutic Symptoms.

§ I.TN course I ought next to adapt these præceding Causes to their Effects, viz. Scorbutic Symptoms, in which I judge I shall not find that difficulty, or be obliged to firain the former, to fquare them with the latter, fince Farrived to the Knowledge of them by the observation of their Esfeds. I shall commence with the Explication of the cause of Lassicude, and Sloath of Limbs, as ordinarily the first budding in a Scorbutick Body. A Lassitude, Debitity, and Sloath of Limbs, are afkalions of the Nerves, which originating from the marrow of the brain and back, must necessarily detive their Causes thence, unless we should conceive them naturally to draw in at both ends; but there being usually concomitant other symptoms of an affected Brain, as Drowfiness, Obtuleness of the internal senses, &c. doth amply confirm, what is Wherefore the Blood according to the full Observation mentioned in chap. 11. being affeded with a tumultuation, the Spirits and Volatil Salts are inflamed, and rendred Acrimonious, which being the principal constituents of the animal Juices, must necessarily prick the Nerves, through which they pass, and incommode the Nervous parts, to which they are transmitted. As for the imbecillity and floath of Limbs, also the obtusion of the A. nimal Faculties, they depend on the intemperature of the Animal Spirits, not being potent enough to perform their offices with alacrity, to which their accusto.

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accustomed just Temperament is absolutely requifine By the way you are not to apprehend here, that the faid Laffitude is occasioned through a Fermentation happing upon the appulse of the Nervous Lique (rendred praternaturally Acid) to the Articles, and there meeting with Lixivial Blood; for the confitution and temperament of the Nervous juices are not fo extreamly different from that of the Blod, as to be contrary to it, which in this fort of Fermentation or Ebullition is necessary it should: can conceive no more difference between them, than between Spirit of Wine and Wine, which for mer cannot be indued with any other qualities, that And here it is, the what it derives from the latter. trice Maxime is verified , Vitium prime coctionis mi corrigitur in fecunda, nec fecunde in tertia. Sother, if the conflicution of the blood in the Arteries be Asid and not Lixivial, the Animal juices mul likewise be Acid and not Lixivial, as being engen dred by a further digeftion out of the faid Arteri blood. Hence I argue, that Arthritic pains in the Scorvey do not proceed from a Fermentation between an Acid Nervous Liquor, and Lixivial blood about the Joynts; moreover as you shall be further fatisfied below, the Lixivial Salts, that are east forth to the circumference in an Acid Scorbut, do not partake of an Acrimony, or at least not to intense, as to excruciate the Limbs with those insufferable pains. But after all, the indicates defumed in this case from the Nervous Liquor, at figns an Alcalious Medicine, and that which is colleded from the Lixivial Blood, indicates an Acid; an abfurdity not to be admitted in Physick, that one and the same Discase should require two Medcines per fe contrary to one another.

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Neither can I affent to that opinion Tr. de Sc. p. 200. 1. 25. which afferts the cause of a spontaneous biffitude and weakness of the knees and legs, to be minfraction of the pores of the Muscles with Excrementitious humors, through which the Animal Spias are obstructed in their passage; for it is not obferred, that there is any Tumor or Tension in the teh of the faid Muscles, but commonly hangs lank and laxe; on the contrary, where there is a real Tenfion and Tumefaction of the Musculs of the Legs, which some gross bodies are subject unto, we do not find any other, than a small compression of the Nerves and Tendons, notwithstanding which, the animal Spirits have their free influxe and refluxe, and the Limbs their fense and motion; wherefore fithere be no obstruction or constipation in this case, much less in the other, and consequently it must be the Animal Faculty and Locomotive Spihis, being præternaturally affected, that are the measion of these last fore-mentioned Symptoms.

5 2. The Dylpnea or difficulty of breathing, that to oft is implicated with the Scorvey , depends on the flagnating of gross Acid Blood in the Vena Arteriefa or Arteria Pulmonalis, Arteria Venofa or Vena Pulmonalis, and in the Pores of the Parenchyma of the Lungs; for every Syftole propelling the Breams of Blood into the foresaid Artery faster, than it is received through the Pores of the Parenchyma into the Lung Vein, the Lungs must necessarily be stuffed, swelled up, and consequently much oppressed by the weight of this stagnating blood. But that I may prevent you from lapfing into the fame error my Author is fallen into , it's convenient I acquaint you here with the meaning of Dyfonea or difficulty of breathing; Respiratio Aubelofa, or short and thick breathing

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breathing, or in the common phrase, Short mindiness, Ashma, or improperly Phrysick and Orthopnes, or the worst and extream degree of Phrysick and their difference; for qui bene distinguit, bene does. In a Dyspace the breathing is somewhat long and slow, with the sense of an oppression or weight, a if something kept the Lungs down. A Respiration Anhelosa is a quick and thick Breathing, as you may perceive in your self, after any smart Exercise, a Running, or Carrying a Weight, &c.

An Ashma is a thick and short breathing, accompanied with a wheefing noise, and commonly also with a Cough. An Orthopnaa is a long and slow expiration, and a quick catching (as it were) inspiration, attended with such a stifling, that the Patient is forced to sit upright, thrusting his Mouth

up and gaping for Air.

A Respiratio Anhelosa is also frequent among Scorbuticks, and is occasioned by a Putrid Acid blood that is (as I have told you before) Fuliginous and Acrimonious, by means of those sharp sooty steams it irritates, and prompts the Lungs to a quick breathing, to prevent stissing, and to attract a clearer Air instead of those sooty Evaporations, which in some I have observed so copious, that their tongue was covered with a black scum, not unlike what is frequently taken notice of in continual ardent Fevors.

§ 3. As the Pulse in respect of quickness and aquality of motion, doth proportionably correspond with the Respiration in a healthful, and likewise in a morbifique state; so it doth in the Scorvey, where in this degree it's quick, frequent, and unaqual in motion, which is occasioned by the same cause, viz. by Acid Fuliginous Blood, stimulating

simply of a quick motion, and imposing a necessity on the Ventricles of the Heart to an expeditious explosion of the Acrimonious cruor. The inequality of Pulsation depends on the maqual mixture of the Blood with those Fuliginous steams (or Heterogeneous Copulas) that do so unaqually vellicate the sides of the Ventricle.

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6 4. A ruddy and thick Urin is most commonly an mendant of a Praliminary Scorvey, which is comprehended and specified in the two foremost Observation of chi 1. the production whereof is a diffolution of those deflagrated Salts and Sulphurs in the Serum, which afterwards is præcipitated by the Pumid Acid . that's ever a sequel to the Scorbutique Ebellition, and so abandoned to the Kidneys and Ureters; but as the faid Ebullition doth only occafinally happen now and then, fo the fore-mentioned raddy Urin doth only appear on those occasions. For the greater part the Urin is turbid, and copionly faturated with a thick sediment, that is apt where to the fides and bortom of the Chamber pot, being nothing elfe, but an excretion of crude indigefted Tartar, or Acid Salt, from the Mass of blood; if at some seasons the Urin appears thin and aqueous, that may happen either thorow the potent coaplative quality of the acidity in the Blood, not separating the superfluous and excrementitious Tarm; or through some obstruction of the passages, leading to or from the Kidneys, suffering the thin only to pass, and retaining the thick. Moreover observe, that in those thick drabby Urins, upon some standing the gross sediment is apt to fink to the bottom, leaving the middle clear and transparest, and a cream swimming on the top, which s nothing but the mucilaginous part of the Tartar.

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Tartar, through its lightness recovering the fun face of the Urin.

6. c. Spots and Blotches of feveral colours de ordinarily furvene a Scorvey, and are caused by condensation of the sulphurous parts of the Blood that are deflagrated, and Volatil Salts amortized through the Acid, in the pores of the ambient skin or cutis, where they are deposed or deserted by the Acid Blood, withdrawing it felf from them, and through its penetrative faculty infinuating into the Veins, returns by the circulative motion into the Body; whereas the others being fo much obtufed are rendred incapable of reverting into the Vellets These Spots and Blotches are not dolorous, because the acrimony of the deposed Salts is obtused their colour if red, they derive from the Sulphui rous or Bituminous parts of the blood, mixt with the Volatil or Amortized Salt; if yellow, from a admixture of part of the Arid Salty condensed and obtused by the reaction of the faid Volatil Alcali which now mentioned obtufed Acid, if left commixt in a greater proportion with the Alcali, and with a leffer proportion of the Bituminous particles render those Blosches of a livid tincture,

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The production of Scorbutic Publies and Botches differ from Spots and Blotches in this only, the the Salts in these latter are diluted, or disloyed in some part of the Serum, which in the former are more condensed and coagulated. Some of these are without pain; others are painful; the latter happening, because the acrimony of the soresist.

Salts is not totally obrused by reaction.

\$ 6. The bleeding of the Teeth, fræquent Hasmorrhages of the Nofe, and Hæmorrhoids, also immoderate

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moderate Menstruations, and sometimes a bloody Flax are Symptoms of this Difease, occasioned through a ferous Acid Blood, rendred acrimonious and corroding by the imbibition of fuliginous Sales. groding the termination of the Veffels. Note, thein most Scorbutics are two forts of blood, viz. A groß and fæculent blood, coagulating and præciplating it felf from the more ferous and fluid parts. The gross blood floats about the Entrails and lower purs, and is κατάρρου (); fo the other being more had and light, is more apt to be avappor and to fream upwards. Those intollerable Gripines of the Guts without a loofness, which Scorbutics here se fo miferably tortur'd with; are likewise occasiomed by the same corrosive Humors, or rather nitrous uid Juices, infesting the nervous, and consequentthy most sensible Tunics of the small Guts. the cause of these Autumnal Epidemic Gripings of the Guts, the inhabitants of this City are fo much exposed to, is a Nitrous Acid, appears partly by the Procatarticks, viz. Liberal Drinking cold fowr small-beer, when they are heated by the æftuating Mays of the Sun, going cool in their clothes, and lying half naked in bed, immoderate eating of horany fruits; and partly by the Cure (Argumentium à Juvantibus) Volatil Salts and Aromatics, not only giving case, but oft removing the Diftemper. But that these Acid Juices should distil from the Brain through the Nerves, or be the Liquor Nervofus rendred Acid (as our Learned Author afferts in a late transcinritled Pharmac. Irration;) and all this while the Brain continue unaffected with any Symptom, Nen credo.

whence fræquent Spirting, Laxity, Discoloration, Corrolion, and pain of the Gums and Teeth-do proceed, hath been declared formerly.

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5 7. The Fainting and Palpitation of the Heat is caused by fuliginous acre steems, suffocating the in Heart in the former, and Vellicating its Ventricle le in the latter.

From what hath been already explicated, may a eafily be Collected the cause of Vomiting, Nause la ouineis, Punctorious pains of the fides of the be Head-ache, &c.

§ 8. Those Erratic Fevors , that ordinarily are an observed to attend the Scorvey, are oft occasioned in by a copious quantity of Fuliginous Salts, that have on been Deflagrated, and by their long continuance & have attracted fome proportion of impure Sulphun fo and so take flame again.

CHAP. XIV.

Of the Description of the Scorvey.

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5 1. THe Scorvey being feated in feveral parts of the body, occasioned by various Causes, and attended with a train of all manner of fymptoms appears as if it had no certain Essence, and coule quently is not capable of a description fo Pathe or enomonic, as other Diftempers , and therefore you la must be contented with such as can be given of it pe viz. The Scorvey is an Universal, Multiform, Vari of able, Endemic, and Contagious Difease of all the parti wh of the Body, particularly of the Stomack, Spiern, and on Liver, occasioned by a Salin Blood, and attended me with a Cachexia of all the parts, Spontaneous Lasttude.

nde, Pefanture and Imbecillity of the Limbs, but effecity of the Knees, difficulty of Breatting, fore and lax Gums, Spots , Blotches , Puftles, &c. The Unirefality of this Diftemper confifts, 1. In Attaquing buic clime. 2. In a Præternatural disposition of all the parte. It's Multiform, because it affumes all lapes of Diseases, there being scarce any Distemper, which in one Symptom or another, it doth not refemble. Moreover, it's a Cold, Hot, Dry, e and Moist Disease, as it's Symptoms do plainly demonstrate , viz. Inflamed hot Puftles , Eryspelas, cold Oedematous Legs, moist Rheumatisms, dry sabs, oc. It's also variable in all manner of refeelts, 1. Variable in the Subjects, there being farce two in a hundred, whose symptoms are alike. Is in the parts affected, being commonly chiefly moted in the Stomach, fometimes in the Spleen, wher times in the Liver ; moreover, per με αςάσιν, of transferring its head quarters from one part symptoms into another quite different, and also in pogress of time passing from an Acid into a Lixivial and Saponary Scorvey , or from a Mouth-Scorof un, into a Leg-Scorvey, and thence into a Joynt-M Sarvey, or sometimes into a Terminative Scorvey. That this Distemper is Endemic (tam ratione aeris crainly it is Contagious, fince most Endemic Madiles are fo, there being ordinarily Miasms, or in period Scorbutic feminaries transported, by means of the Vehicle of the air from one body to another, which obtaining a power of producing their like out of the humors of fuch Bodies , into which they det actransferred, engender an absolute Scorvey, in a is less space of time, than if it had primarily took de

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its rife in that manner, I have heretofore explained All the parts of the Body and humors being thorow. ly infected with the Scorbutic Seminaries, the Spematic parts cannot be free, which must therefore also render this Diftemper ou wevis and Haredin ry. 1. By means of the Semen of the Parent, and its plaffic faculty. 2. Of the Uterin Blood. 2.01 the Milk affuged by the infant, whence we may term it oungeoo . 4. Of the Contact (N waele) of the Lips of the Mouth, and Ambient Skin of the body, whereby the Scorbutic magua is transferred to the Child by being kiffed or hugged by the Parents , and lying by them in bed. But be cause you shall not only be satisfied with my Information, give me leave to acquaint you what Platers, the Learned Professor of the foregoing Century Bafil, reports of it, pag. 355. This Malignant Difcase when it first discovered it self in the Maritime Northern parts, and proved Contagious, gave meno fmall suspition , That from remote Countries , which these people that cross the Seas do in our age diffe ver, almost to the extream borders of the Earth, at where possibly it is familiar; it was transported it to thefe places that are near the Sea by Seamen.

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perfectly made in the Art of Physick, as to release the occasion of all objections from Cavillers, and therefore to prevent that Risk, I will be Opposed to my self, in forming several Doubts and Objections against the Definition by me proposed in the Chapter. First, I offer this Quastion, Whether the Scorvey be a Manifest or Occult Disease, that is as Fernelius doth term it, a Morbus totius substantial. Some that argue from Authorities, probably may offer the Sentiments of Platerus, Sennertus, Sing-

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of of by come in the model of

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bius, and others. The first of these afferts the Scorun to be an Occult, Malignant, and absolutely Venomous disease. The second gives us a definition (which as I faid before, the Scorvey is not capable of, as having no effential difference) in these terms. The Scorvey is an Evil and Occult quality, or dispositien, impressed on the whole Body, but chiefly on the Lewels, that are destined for Nutrition, arifing from grofs Melancholy Humour , that's Ichorous or Serous, and corrupted in a peculiar manner, or, faith he, It sa certain Evil Nutrition, or ill Habit of the Bod, &c. The last expresses it, to be a Moist diflemper of the Spleen, occasioned through the pureficion of the thick Humour, which the Spleen delights in. The foremost Opinion may easily be Refelled, fince the Symptoms of the Scorvey may be plainly deduced from Causes, that are obvious and manifest. 2. All Venoms do immediately asfifinate the Heart, dissolve the Vinculum vite, and have this Qualification appropriated to them, that they are only to be Expelled by their Antidotes; be common Observation tells us , that the Scorvey moves gradually, is more ordinarily seated in the Spleen, or Stomach, than the Heart, and is cured by Medicines, that operate by a manifest and not occult quality, namely such as are of a subril igneous and colliquative faculty, as Scorvey-grass, Waterind at the ball of Miles, &c. The second Definition savours much of befust, and renders it a morbus totius substantie, which that it is nor, appears from the former An-Steeghius will have it a a moist disease, and Melancholy a Drying humour, the continent que; which however per accidens may produce a moift diftemper; but waving that, it is most certin, that in many Scorbutics the Spleen is not affected, and therefore cannot be described to be a moist diftemper of the Spleen.

To The Difease of London, or

5 3. The next Quæry is , Whether is the San ver a Similar, or Disimilar Disease? Some that to allow the Scorvey a Disease of very ancient date adjudge it a Dissimilar disease, and in particular Discase of Magnitude, viz. A great Spleen Pa Forestus afferts it a compounded disease, and on Simple. The firtest answer to this in short is, The primarily it is a Similar, and secundarily a Diffini lar Difeafe.

6 4. The third Quaftion is , Which is the pur principally and originally affected in the Scorun! Horflins flates the Spleen the part affected , othen in the Stomach only, and many the Stomach, Splee, and Liver. If in some it be observable faut if they are troubled with luxuriant glowing Gum, 2 and vacillation of their Teeth, without the commitance of other symptoms, in all probability in the Stomach is the only part affected, there appearing no fign or symptom of any other entrail, that affected. On the other hand, if no other symptom Emerge, befides blewish Scorbutic Puftles or Blo ches, it may rationally be concluded, no other par is affected but the Spleen. It has been also observed by Forestus, and Reusnerus, that the Spicen and other Entrails have not appeared much affected in form deceased Scorbutics, but the Liver chiefly, where was observed a great discoloration, and dislord unity of its substance. Whence we may deduct, that a Scorvey that's contracted by a Salin Dial, the Stomach is originally and primarily affected, inthe which is occasioned through a Salin Air the Splen, but after some continuance they become all put æqually affected.

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CHAP. XV.

Of the Differences of the Scorvey ...

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5.1. CUbjects that confift of a mutable Nature re-J quire exact distinctions, which are to be. defumed. I. From its growth, whence the Scorvey. balled either Praliminary, Liminary, Recent, Invetrate and Terminative. A Praliminary Scorvey, I must confess, is very improperly named a Scorvey; for being absolutely confidered in it self is no Scoron, but in a Relative and Subsecutive way I have. imposed that Denomination only Doctrine gratia, to express the root whence a commencing Scorvey doth spring and bud forth. This being præmised, I intend those Ebullitions comprehended in the Observations that are delineated in Chap. 11. for a Helininary Scorvey, because they præcede, and are, generally Praliminary to a Scorvey. A Liminary Survey is that, which upon the quietation and lub-Mence of a Praliminary Ebullition buds forth. A. Ment Scorvey is a confirmed Scorvey, but of no. long standing, and is answerable to the augment of the Diftemper. An inveterate Scorvey is a Diftemper of a long continuance, and alludes to the state. of the Difeafe. A Terminative Scorvey, is that Diftast whereinto it doth pass, and puts a termination. to the Diftemper and Life also ; as a Scorbutic Dropfe, or Consumption, &c. for it is such a sort of Distase the Scorvey doth at length terminate into, and so prove Mortal.

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§ 2.

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- § 2. From the manner of its Origination, is which respect it's either Hereditary and Connate, when it's either Hereditary and Connate, when it's either Hereditary and Connate, when it derived from the Scorbutic indisposition of the Parents; or Adventitions, which is engendred some time after one is Born; and this is twofold, for it either contagiously adventitions, when gotten by lafection, or non-naturally adventitions, that is, who contracted through fault of some of the Non-naturals, as Salt Diæt, Salin Air, Melancholly, want of Stirring, &c.
- \$3. From the parts Primarily and Principally affected, this Disease is termed an Hepatic, Splantic, or a Stomachic Scorvey.
- § 4. From the internal Cause, it's stiled either a
- § 5. From the parts where the Symptoms do concentrate and clot together, it derives the name of Mouth-Scorvey, Leg-Scorvey, or Joynt-Scoron; By the way I must give the Reader this advertisment , That in a Mouth-Scorvey the Symptoms are not fo limited, or circumscribed, as to extravague no farther than the Mouth, but that some flight Superficial Symptoms of the other kinds are allowtendant, viz. A great weakness or feebleness of the Knees, Spots about the Legs and Arms, Blotches in several parts, especially in or near the Groin, Ambulative glancing pains about the extreme parts, & So likewise in a Leg-Scorvey some Symptoms of the Mouth and other parts are remaining. So that this distinction doth chiefly take its denomination from the greater number of urgent and remarkable Symproms, that haunt the Mouth, Legs or Joynts.

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- 66. From some prædominating Symptoms the survey oft takes a particular Nomenclature; from an Althma it's called an Almatic Scorvey; upon the ime account it's fliled a Rheumatic Scorvey, a Tormior Griping Scorvey, a Diarrhous Scorvey, an Entic or Vomiting Scorvey, a Flatuous Hypocondriac Scorner, a Cutaneous Scorvey, viz. of Spots, Pufles, Blorches and Pimples, an Vicerons Sco. v. y , a Dolorous Scorvey, &c.
- t of 67. From the occultation or hiddenness of the Symptoms within the Body, it may be called an inward, hidden, or Latent Scorvey, which doth not " manifest it self in Symptoms that are external and evident; as Spots, Mouth or Leg Symptoms; but without the Concomitance of these, there is onely observable a Neutrality in point of Health, a defedion of Appetite, fome small oppression of the Breaft, a diminution of ones usual inclination to flirring, and some little hebetude or duliness of the Senses, &c. or a Manifest Scorvey , appearing in external Symptoms.
 - § 8. From its manner, it may be termed a Mild or Malienant Scorvey. From the Countrey or place where it reigneth, it's called an English , or Dutch Scorvey; also a Sea, or Land Scorvey.
 - \$ 9. It is not to increase the bulk of this Tract, but the great use that may be made of these differences and diffinctions, as you will in their proper places observe, hath been the occasion of inserting them in this Chapter; the truth hereof will manifest it self, when you come to understand, that maby patients are frustrated of their hopes of Cure, and some præcipitated to their Tombs, thorow the neglect

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neglect and error in making a right distinction of their Disease, its degrees, and its various mutations, which sometimes is to a contrary distemperand it is here chiefly, that I prætend to be particular, whereas the Vulgar Hackney Physician neglecting the Journal of progressions in Maladies, solloweth onely the common Tract of Method and Remedies, and therefore fræquently misseth his scope of restitution of health.

CHAP. XVI.

Of the Diagnostic Signs of the Scorvey.

Preliminary Scorvey is not onely discovered by præceding Scorbutic Procatarctics, but also by the Pulse and Urin, the former beating not so unæqual, as in continual putrid Fewors; neither is the heat so pungent, but glowing only, that is obtuse and fuliginous: the latter is commonly of a higher colour, than in an ordinary continual Fevor it can arrive to in so short a space of time, and very abounding in a gross ruddy sediment. Moreover the ebullition of Blood is of no long continuation, but in a few dayes is apt to fall and subside, unless provoked by the error of the Physician or Patient.

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62. A Liminary Scorvey some do decipher by these four Pathognomonic Signs, I. A livid and dead-The Complexion of the Face. 2. An itching deep redness of the Gums. 3. An Oppression of the Brest and Respiration, also of the Sides about the Bestard Ribs. 4. A Painful Feebleness of the Knees. These we grant to be common Signs in an evident. commencing Scorvey, but not Pathognomonic, because they do not alwayes attend every Scorbutime; for I have met with fome, that without those Symptoms before-mentioned, have been disfigured with livid Scorbutique Spots, likewise some : whose Mouth and adjacent parts were affected. without the least sense of feebleness in their Kuces, or oppression of Respiration: Lastly, Those that are molested with a Latent Scorvey, are exempted from several of the prænumerated Signs.

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To these common Diagnostics must be added fish, A great heaviness of all the Body, and lumpilhness or dulness of the internal and external Senses. 6. The Appetite in some is obtused, in others it's fo much sharpned, that they are apt to covet more than they can digeft. 7. A Begovare lia. or the digeftion of the Stomach somewhat impaired of its wonted vigor; as appears by a small heaviness and drowfiness after Meat, and accompanied with Belchings and Winds murmuring downwards. 8. The Urin is less transparent, and grown a little : turbid and drabby. 9. All these may be confirmed, by confidering the Procatartic Causes, viz. Whether they have lived in a Scorbuic Air, or fed upon Salt Diæt , or by reason of Imprisonment, .. or other voluntary Confinement, have neglected all manner of Exercise, or whether they have been under some occasional Melancholy, or whether some F. 5.

usual evacuation, as the Menstrua, Hæmorrhage at the Nose, or Hæmorrhoids, Issues in the Arm, Neck, or Leg, or in any other part, be not suppressed. Or whether they are not Splenetic or Hypocondriac; or have lately been troubled with a Quartan Ague: Or whether their Parents were not subjected to the Scorvey, whence it might be æsteemed Hæreditary; or lastly, whether they do not daily converse with Scorburics, whereby it might become Contagious. Consider also the Juvantia, and Nocentia, what things help them, and what hurt them.

5 3. The figns of a Recent, or Augmented Scorver, are, I. A spongy swelling of the Gums, which upon the least pressure, or biting a piece of bread, are apt to exudate Blood. 2. A great frink of the Mourh. 3. Loofness of the Teeth. 4. Spors like Fleabites, and Freckles dispersed over the whole Field of the Body, but thickest about the Mouth, Temples, Arms, Breaft, and Knees; fome are Red, others Yellow, Grayish, Duskish, Purpre, or Blackish, easily disappearing in one place, and emerging again in another. 5. A deeper transmutation of the Complexion into an ill habit of Body, the looks feeming Yellowish, Greenish, deep Red, Sallowor Swarish. 6. The oppression of the Lungs, Breat and Sides is confiderably increased, infomuch that when they ftir of rife up, they are subject to faint and gasp for Breath, which continue th so long, until they fit, or lay themselves down again. 7. Pulfing up of the Stomach particularly after Victuals, and Tension of the Belly. 8. The weakness of their Knees and Ancles, is likewise much augmented, which renders them far more Impotent in going, or moving. 9. It's observed, that in many THE

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the whole train of Symptoms is apt to be intended or increased every fourth day, in some every third day, that is every other day (for Physicians do reckon inclusive) in others at certain seasons every day. 10. In this degree they are usually Costive. And 11. troubled with Pain and Stitches all over.

12. Suppression of the Menstrua in Women, in stead whereof, they are molested with a fort of painful Whites.

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§ 4. In an Inveterate Scorvey , thefe Præchted Symptoms and Signs, as they have taken deeper Root, so have also assumed a greater intension and fubbornness; for in this degree the Parient is deprived of all power of Moving or Stirring; the Snews, Tendons, and Muscles, are apt to be stiff and contracted. He is molefted with Vagrant, Ambulative, Diftending, Creeping, Vellicating, or Lincinaring Pains of feveral parts of the Body; bruifing Offifragous (oscadowo) pains in the midway of a Limb between the Joynts, torturing most in the Night; Red , Yellow , Purpre, or Blackiffs : fplotches, especially about the Knees, which sometimes being concomitated with a Tumor, and extending thence downwards as far as the Foot, and meeting altogether in one tumefied Splotch render the Leg to ones view, as it were all over Leprous; a fræquent recurring Melancholy paffion, .. Hiccoch, choaking Coughs, and copious Salivativ ons, violent Palpitations of the Heart, deep Swoundings, firenuous Vomitings, tearing Iliack pains, which a famous-Author names a Dylenteria Incruenta, but how properly, let others judge. The Pulle variable, inæqual in motion and firength, most times low and thick, and sometimes vermicular, though at other times from and violent, that is Thumping

Thumping. The Urin is inconftant, oft turbid and whitish, sometimes thick and reddish, seldom thin and pale; deep Red, or purpre Tumor and Puffles. scattering over the Surface, Redness of Face, Tumors and Imposthumes of all kinds, according to the Temperament of the Grieved. The forefaid Splotches oft do peel off in Scales of several co. lours and figures, or exchange into Eryfipelas's these and likewise Botches do pass into Ulcers. fome of which are superficial, profound, simple. inflamed, callous, dry, fanious, purulent, co. In fome few the Veins under the Tongue, and about the infide of the lower Lips are varicious; some also they are debilitated by great Sweats, which they are exposed to. In an Inveterate Scorvey, they are oft loose and subject to fall into violent Fluxes of the Belly, or Diarrhaa's, and Lienteries, which if continuing, pass into a Terminatory Distemper, The tormenting pain in the Back, called Lumbago, and refembling the pain that's occasioned by the Stone of the Kidneys, is very brisk in this degree, as also spurious Pleuritick pains.

§ 5. The Signatures and Symptoms of a Terminative Scorvey (which is the extream degree, where into the foregoing passeth either per metalsator, or Emperator, are, 1. A Scorbutic Phagedænic, cancerous or gangrænous Ulcers, and Caries or Rottenness of the Bones. 2. A Scorbutic Fisful, which may happen to several parts. 3. A Scorbutic Dropsie, which commonly proves an Ascites, though I have also remarked the Scorvey hath made its Exit, through an Anasarca, and Tympanie. 4. A Scorbutic Atrophy and Marasmus. 5. A continual very fluent and drivelling Salivation, which one in Throgramorton-street hath laboured under several years, and

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will certainly conduct him to his Grave. 6. Scorbutic Convulsions, and Epilepsies. 7. Fræquent Syncopees. 8. Scorbutic Palsie, and Tremors. 9. Scorbutic Apoplexie. 10. Scorbutic Quartan, Tertian, Erratic, Hectick, and continual Malignant Fevors. 11. Seorbutic Orthopnea, and Periodical Coughs, and Ashma's. 12. Scorbutics Phthisis, or Pulmonic Ulcerous Consumption. 13. A continual Flux of the Belly, as a Dysentery, or Lientery.

66. The Signs of an Hepatic Scorvey, are 1. Deep. Red. or Yellowish prurient sanguinolent Gums. 2. Red, Yellowish, or Cineritious spots and splotches about several parts of the Body, especially about the Breaft, Neck, and Face, also Puffles and Bumps of the like tincture in the same places, that prove somewhat Incommodious by a Puriginous iching quality, also Erysipela's, Shingles, and Ringworms; some of those spors and splotches of an Ash and Citrin colour I have observed to be indued with a faculty so corroding, that their feat hath been deep in the skin, much below the furface. 3. The Complexion of the whole habit of Body, tending to a cineritious or subcitrine descedation, and in fome to a verdure. 4. A flitch or pricking, and in many a weighty depreffing pain in the right fide, under the short Ribs, particularly upon a deep caprisant Respiration. 5. A soreness, pain and oppression in the right Hypochondre, when lying on the left fide. 6. Difficulty of Respiration, the Urin and Pulse uncertain, nidorulent Belchings, befides feveral other figns common to a Liminary, and Recent Scorvey.

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57. A Stomachick Scorvey is discerned, 1. By a pale Tallow habit of Body, white spots like Cacatrix's, much lighter than the skin, pale Pustles and Ordematous Tubercles, chiefly about the Stomach, Breast, Neck and Groin. 2. Oedematous Legs. 3. Laxe sungous pale schorous Gums. 4. Fluent spirting. 5. Instation of the stomach, heavy Dige. Stion, sowr Belchings, and discharging of Wind both ways. 6. Distension of the Belly; whereunto add some of the common signs.

\$ 8. The marks of a Splenetic Scorvey are, T. Livid luxuriant Gums, that are apt to be Fissured. Ulcered, grow purrid and flink, and at len th through a Phagedanic fanies are apt to be corroded away. 2. Blew livid spots and splotches, which by Deterioration turn black, and oft-times Ulcerate, and commonly haunt the left fide of the body more than the right. 2. Sowr Belchings, Winds Murmuring and Fluctuating about the Guts between the Hypochonders, Stitches, Pricking, or Gravitating pains in the left fide under the spurious Ribs , Mefancholy paffions, Palpirations, Sudden Faintneffes, Vertigos, Inflations and pains of the flomach, which fometimes reach as far as the Back, in manner, imitating those of the stone in the Kidneys, also Vomitings, which in some is so continuous and permanent, that they scarce ever Eat or Drink without returning some part of it immediately, or after a short interval; and notwithstanding are obliged to Eat and Drink often, to suppress the gnawing pain of their stomach, which is occasioned by a putrid Acid Serum, vellicating the Tunics of the stomach, lying on the left fide proves eafiest to them, a livid blearing up of the under Eye-lids; a Hæmorrhage of the left Noftril, and many other Characters expressed in the general Semeiotic. 5 9.

5.9. An Acid Scorvey not differing from a Stonachic, a Liminary, and Recent Scorvey; a Lixivial Scorvey being of comprehended under an Hepanic, and a Saponary under an inveterate and Terminanery Scorvey (which Identifications are only to be
moderflood χ²¹ πωλυ) are eafily known by those
Notes I have already præmifed, whereunto may be
idded for confirmation, the most certain sign defumed à Juvantibus and Nocentibus, viz an Acid Scorny yields to Alcalious Remedies, a Lixivial to al
Scorbutic Acid, a Saponary to a mixt Remedy. The
Mouth, Leg, and Joynt-Scorvey, needs no further
Hustration for discovery, than what I have set
down in their particular Chapters.

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§ 10. A Latent Scorvey requires Experience and Industry in the Physician, who must rake his Dimenfions of Conjecture, 1. From the Air wherein the Patient Liveth. 2. Diæt. 3. From fuch fymptoms, which cannot fo Directly or Relatively be applied to any particular Difease besides this, as a Recurrent Lassitude, and floath of Moving, dulness of the fenses, difficulty of breath, pelanture of Body, inflation of the stomach, heaviness and dulness after Meat, winds about the Guts, Coughs and Catarrhs fraquently returning, befides feveral other Neutral fymproms, which do neither determine a man abfolurely Well or Ill. Laftly, Observe that where two fuch Non-naturals, as a Salin Air and Diet. have so absolute an Influence on Bodies, scarce any Difease can seize on a man, which doth not partake of a Scorbutic Tincture, neither can it be well cured, without abstracting a Coindication from the Scorver.

SII. A Dutch Scorvey in fymptoms is very different from the English; they using generally a Diat, more Excrementitious than ours (as gross thick Beer, Roots, Cabbage, Salats, Milk, Roak-Flesh Pickle Herring, and other Fish) are more exposed. to all the supposed Pathognomonics and Syndrome of a Mouth and Leg-Scorvey, than we, who feed commonly on meats of more Nutriture and less Excrementitious, and therefore are not fo much exposed to that general Catalogue of Scorbutic Symptoms, but most commonly to those that are Latent, (and Recited in the praceding Paragraphs) and some others more evident, as Spots, Blotches, Puftles, Cutambulous Pains, Griping of the Guts, Vomiting and Gnawing Pains of the stomack, Hypocondriac Winds and Vapors, Catarrhs, Coughs, also to those of the Jojnt-Scorvey.

CHAP. XVII.

Of the Causes of a Terminatory-Score vey.

I His Chapter I have reserved for the Etiology of a Terminatory Scorvey, in whose train the Dropse being placed in the Front, shall Commence my Discourse on that. The ill success that attends the vulgar Cure of an Ascites, or Water-Dropsie, by hot drying and lixivial Medicines, as Elycampane, Orris Roots, Cyperus, Calamus Aromaticus, Juniper, Salt of Worm-wood, Centaury, and a Hundred more, is a plain Convictive, that the Cause is most erroneously assumed, to be a Ressi-

geration of the Liver, and its Obstruction through Phlegmatic Humors. But on the other hand, when we shall take into consideration, that a Scorbutic prophe is eafily, and certainly cured, if attempted in time by mixt remedies , (whereof Spirit of Tarter, of Salt marine, fingle or composite, and such like Acids, are the Bafis) besides the Symptoms atundant fignifying a Lixivial Original, is to me a clear Demonstration, that it proceeds from a Calcination of Choler in the Liver, which thence refulting into an Alcalious Salt , dissolves per Deliquium, and fo becomes qualified to penetrate into the most intime pores of its Parenchyma, where it subverts its Temperament, and through its Absorbitive Exhausting faculty parches its substance, and indues it with . Salin diffolving Quality, whereby the whole Mass of chymus is daily diffolved into a Serum. The univerfal current of Blood, deriving hence an absorbing and exicating faculty doth about the Stomachic Veffels fo exfuge the Mouth of the Stomach, that Hydropics are continually obliged to moisten it, by ingurgitating large measures of Drink, whence the Latex feri doth so immensurably accresce, that through its intumescence generally some Vessel or other about the Abdomen, and particularly about the Misentery, doth burft, or at sometimes through the Acrimonious quality of the Salin Serum the-faid Vellel is corroded through, among Phyficians termed, a Sa Bpoors; for it's not possible, so great a quantity of Water, as is sometimes collected in the capacity of the Abdomen, should swear through the pores (per d'ami deau.) But this is certain, that oft in a Commencing Dropfie, or one that's Recent, and of no large Circumscription, the Serum may extil through the Osculations of the Vessels (per sasouager) and it is this kind of Dropfe is capable,

of an expedite Cure, whereas the other that depends on a Siaspooris, is for the greater part incurable; for suppose, that the Extravasate Serumis all , or in a great measure drawn off by Hydrago. gous Purgatives, still the consolidation of the corroded Vessels is not only difficult of its own nature. but in a manner impollible, because of the daily præterfluxe and appulse of the corrosive Salin St. rum, to the discontinuated Orifices of the said Vesfels; add hereunto the inepti ude of the falin con-Ritution of the Liver and corroding Alcalious Blood to be sweetned, and reduced to their priffin Temperament. By the way, let me observe the Error of Hofman in his Institutes, attributing the causality of a Dropsie, to a Diminuted or Abolisht faculty, of the Kidneys, not attracting the Serum, which is manifest, doth happen per accidens; because the Serum having taken another Channel, is deviated from its usual appulse to the Emulgents. But fince ! find my felf for the præsent imbarqued on this subject, the affinity of the matter perswades me to expatiate into some other sorts of Dropsies, that are not Scorbutic, namely fuch, as sometimes do happen to Women after their lying In, also to some upon a liberal draught of cold Water, and to others upon the continuance of a Skir of the Spleen or Liver, or upon a tædious haraffing of a Tertian or Quartan. In the first case there being a vast Coacervation of Humors in the Hypogastric Vessels, by reason of the retention of the Menstrua, during the whole time of Child-bearing, which upon the pains of Labour attracting a greater Conflux thither, and the great heat of the adjacent parts rarefying the faid Humours, occasion some of the Lymphatic Vessels to burft, whereunto being concomitant a copious Hzmorrhage of the Matrix, caufeth a vaft expense of Spirin,

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Spirits, whereby the Bowels do all fuffer a subverfion of their temperature, that afterwards proves an occasion of engendring crude aqueous Humours ; thele upon their circulating reversions distilling out of the forefaid burfted Vessel into the capacity of the Abdomen, produce a Dropfie. The like may happen upon a draught of cold Water, violently repelling the Humours to the Vessels of the Abdomen, which partly through the violence of the Impulse, and partly through their being crouded together, occasion a Rupture of some of the Lymphæducts. Here I must animadvert further, how ridiculous a conceit it is of most Physicians, importing the said Dropfie to be caused by the sudden extinction of the innate or influent heat of the Liver, which afterwards doth engender Aqueous Blood; as if that entrail should be left so maked, or be so meanly fortified by Nature, as not to be capable, to refift the quality of cold Water at fo great a diffance; for certainly the cold is much broke and obtuled by the Stomach, and other parts, before it can arrive to the Liver; or as if that cold quality, which is impressed upon the Liver, could not be easily remedied by hot Medicine: But what do I infift fo long upon these Trifles, fince the whole Body of Physick is filled with them? How a Dropfie is engendred upon a Skir, Tertian, or Quartan, you may be informed from the Pramisses, wherefore I will return to Confirm the cause of a Scorbutic Dropse to be an Alcalifed blood, by the Calcination or Reverberation of the Bilis, which the Liver is alwayes furnisht with throughout all its parts, to subtiliate and depurate the refluent Blood, which being performed, the superfluous part of the said Bilis is abandoned to the cyflis. The Symptoms concomitant and fupervenient do strongly Corroborate that Sentiment. I. The

1. The infatiable Drought, the Atrophy of the Superior parts, the Lixivial ruddy Urin, torrid Tawny Complexion of Body, cancerous department Uncers of the Legs, the falt Lixivial tafte of the Surum, when Tapt out per paracentesin; who but an infipid Medicaster can derive them from any other than an Alcali, or a reverberated Bilis?

S. 2. A Convillion, Palit, and Apoplexy, are the next particulars, that highly merit a ferious deliberation, the more, because they ordinarily prove so dangerous and terminative. In the conceipt of their part primarily affected, feat, and internal Caufe, I have for several years with the Generality of my profession, attributing too much to the Dictates of Antiquity, floathfully erred, until that by a stricter scrutiny and observation in practice I had detected their true Fountain and Original, which I now propole to you. That the Heart is the chief feat, and part primarily and principally affected of the forementioned Diseases, appears 1. By the pulsation of the Arteries, which before any Convulsion, Palfie, or Apoplexy doth seize on the patient, doth very much vary from its Natural, in respect of Fortitude, Order, Frequency, Æquality of Motion, and many other specifications; which certainly express the heart primarily and principally affected; confer further with the 6. Arg. 2. By the Respiration, whose variation from its ordinary Function in feveral respects, præceding those recited affections, also fignifie the same to be the part principally affe-Red. 3. From the consideration of the Office and Function of the Heart, which, besides the Vivisication and Irradiation of the whole, is, to be the fole and Primum mobile of Motion of the Animal Spirits; for through the Pulsation of the Arteries. about-

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about the Brain, and more especially about the Plexus choroides, it causes Efforts, Impetus, and impulsive motions on the Animal Spirits; fo that it is from those Impulses these receive their energy and vigor, and therefore consequently the Heart being affected, those impulses must also be depravated or diminishr. a. If at any time those Symptoms are abated or removed, it is by means of Cordials, which here for diffinction, and the scope they are intended for (though improperly) may be termed Cephalic-Cordials, Cepbalico Cardiaca, as Spirit of Caftor, Amber, Rosemary, Poyny, &c. These undoubtedly are nothing more than Cordials, and rectifying the Blood, comforting the Vital Balfam and Spirits of the Heart, and reducing them to Ordination, aquality of Motion and Vigour. From ordinary Cordials they differ in this only, that confifting of a more durable and compact Sulphur and Spirits, they conthe their Operation longer, in comforting the Heart, and oppugning the Salts of the Blood, by reason of the Compactness and Crassitude of their substance, whereas those that are vulgarly termed Cordials, and intended only to comfort the Spirits by affimilation, confift of a lighter, fusive, and exhalable fubstance; as Spirit of Wine, Treacle-water, Aqua mirabilis, &c. 5. Observing, that in some Cases the foresaid Symptoms receive a confiderable abatement and benefit from Phlebotomy, it is eafily demonstrable, that this is performed, by detrafling some part of the burden, that oppressed the Heart, and its pulfifique and impulfive motions. 6. Galen, lib. 2. de cauf. pulf. c. 12. feems to intimate what is here afferted, in these words: Pulsus convulfious eft, in quo utrumque terminum arteria tenditur, quem convulsio sequi solet. So that a convulfive pulle (which fignifieth the heart to be affe-Red

Red primarily) doth præcede a Convulfion, which following must be deemed a Symptom of the for-Touching the manner and difference of those three symptoms , I conceive , that a Convulsion is occasioned by Irritation, a Palse by Relaxation and Obtusion, and an Apoplexy by Dissolution. But to illustrate it further; When the Arterial Blood confifting of an acrimonious pungitive Salt, and anpelling to the lower part of the Brain (which is the most sensible, and near the Principium Nervorum) is agitated fmartly by the vibration of the Arteries or hard and violent pullations (for in all Convulsions Pulsus sunt duri & tensi) those subtiler particles of the Blood are adacted violently into the pores of the tender parts of the brain, which being thereby extremely discomposed, do violently impel the faid pungicive particles into the Nerves (or in some case only make a smart impression of their Idea on the Animal Spirits contained in the Nerves) and being protruded to the Tendons of the Muscles, through their stimulating quality incite them to control and diftend themselves, to be freed or discharged of those aculeous particles. Moreover, take node, that the vulgar Explicatory of Convulsions, where in the Nerves are declared to be primarily and chiefly convelled, which being continuated to the Muscles, do likewise occasion their being convelled, is greatly Erroneous; for only the Tendons are Subject to Convulsions, they being the chief infinement of the Motus Spontaneous, and only subject to a Motus Depravatus, and Violentus, whereas the Nerves are not appointed to move or to be moved, but to convey the Spirits. Secondly, when a Nerve is punctured, or cut afunder (as harh oft happened by the indexerity of Surgeons in Phlebotomy wounding the Nerve in the Arm instead of the Vein)

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Vein) it's only apt to be furprized with a very great pain; but never known to be convelled. Wherefore I would not have my Reader judge the Dictates of the Aucients to be infallible, fince befides what is fore-mentioned, it's manifest in many of their positions, which hitherto by this credulous Age are received for Truths: I shall only give you this instance for proof; the Causes of a Cephalaleia, or Head-Ache, is by them afferted to be Acrimonious, or diftending Humors and Winds, mroding or diffending the Membranes or Meninen of the Brain. Nothing is more false than this, or favours more of Ignorance in Anatomy; for wither of the Meninges are in the least sensible, as may be observed by the Probe, wherewith touching the Dura Meninx, though roughly, (when lying here upon the use of the Trepan) is not in the leaft perceived by the Patient. Secondly, whence should the sense be derived, there being not any Nerve, or fo much as a Nervous Fibre transmitted to it from the Brain. In Summa, in the Brain, Stomach and Liver, though they are daily Diffected and Examined by Phyficians in their expired Patients, many particulars are passed by, that have not been discovered until very lately, which is to be attributed to their Negligence and Unskilfulness; for indeed now adayes, if a Phyfician hath but once or twice diffeded a Sheeps-head, or a Calves-pluck, he thinks himself sufficiently qualified to Challenge the Title of an expert Anatomist; thus we see, that an expert Anatomist of this kind, observing that one of the jaw Muscles of a Sheeps head had two Bellies (whence it's also called Digastricus) immediately concluded all Muscles to be Biventres; an able Headpiece for an Anatomift.

A Palsie is an impersect Apoplexy, or a Levis Apo-

plexia, and differ only gradu, secundum magic or minus, and therefore do easily pass into one another, according to the Tenor of the Dott. of Hipp.

Galen. 3. de loc. affect. 10. further tells you, That where all the Nerves have at once lost their sense and motion, that affection is called an Apoplexy, but that which only happens to the right or left side is a Palsic.

The causes in general are twofold, I. A Material And, 2. A Formal Cause. The former is a groß Saponary Blood, which through its thickness is rendred incapable of being fo subtilized by the Brain, as to distil into the Nerves, and that part that is infinuated into the Nerves, being too obtule and gross, to receive the Impulsive motions and Impetal, prove unable to actuate or diftend the Nerves and Fibres, and therefore move the members very weakly, or not at all, whence I term it a Relaxation in opposition to the said diffention. The Formal Cause is the pulfifique faculty of the Heart, which is rendred foft, flow, and dull, and therefore incapable to exercise its Impulsive motions. Moreover observe, that though the Blood is Salin-Alcallous, it is not Acrimonious, because it is obtuled by a mixture of groß Uncluous and Bituminous Sulphur, that obtules its Acrimony; for otherwife were it acrimonious, and purely Lixivial, h would prove Vellicating and Dolorous, and confequently Convulfive. The Atiology of the other Terminatives may be eafily deduced from the interspersed Discourses.

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CHAP. XVIII.

Chronology of the Scorvey.

1 17 0 whatever various Sentiments touching the first Rife and Appearance of this Disenper, every particular Physicians Fancy may the among Physical Records, the name of Scorvey (that touching Identified Symptoms hath been difred among the Ancients, let that reft) is not modened in any Author prior to Euritius Cordus, this Botanology, and Olaus Magnus, who in his Bif. Gent. Sept. relates, There was a certain Camme Difeafe, which did afflict those that were beinged and closed in , and seemed to grow from eat-Exhalation out of the Walls, and was called the torbech. But Georg. Fabrit. Lib. 2. Annot. in his liftory of the year 1486 faith, This year was reignin a new and unbeard of Difeafe in these Countries (which were Silefia , Bobemia, and the parts adjacon) which the Seamen of Banony, called Dan Soarwhence I collect, this Difcafe had fome in years before been Extant in Samony, and Denpossibly in 1483 or 84. Moreover two things ecohervable, a. That this Scorbutic Evil præfenthair is first Origination , was more fierce , and figuret, than the enluing Twenty or Thirty for the faid Fabritius in the account he gives die, tells us, this Diftemper tended immediately n Morr; which if not timely remedied , became Gingranous, and Mortal. The second is, That there

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there was an interval of some years, before it spread ed into Countries that were less Northern; for be duinus Ronfæus, who to me appears the first, the wrote on the Scorvey , & Professo in his Treatise & Magnis Hippocratis lienibus, plinitque Stomacace, & Sceletyrbe, feu vulgo dicto Scarbuto, printed at An. werp, in the year 1 564. doth express, this Difert was but newly arrived among them, and was 6 ftrange to them, that many scarce knew, what n make of it. Guil. Lemnius aZelander, wrote a Tres tife on the same Subject a little while after. Forth in his Obferv. Lib. 22. Obferv. 20. writes, that the Scorvey, was not only formerly unknown, but many that were troubled with it, Died of it; likewife that one Dorpius, a Priest of Lovain, died of the faid Disease many years fince, the Lovain Physicis ans being extremely surprized at it, who had not yet determined any thing concerning it , being at Evil that was yet new and unknown, and fo was in Name, Effence, and much more the manner of Co ring it.

Scorbutic Authors tell us, that Weltphalia was perfer'd with it next after Denmark and Saxony, in the year 1500, the next Friezland, then Flanders, and Brabant, in 1556, where it was occasioned by earling of Rye, that was brought from Prussa, there being at that time a great scarcity of Wheat; afterwards Holland and Zeland; in a manner, as it this Distemper had by Contagion crept from Country to Country. Many years it remained on the Coast, before we were sensible of it here in England; for there are many Physicians yet living, who in the former part of their Practice, had not so much a heard of the Name of this Disease, whereas with the last 20 or 30 years past, it's grown very familiar

Among us.

The next Author that wrote on the Scorvey after Infeus, was Echtius, whose Epitome of the Scorvey was printed a little after the faid Ronfaus , next to him was Wierus de Scorb. printed in 1567. next Safrom Albertus, whose History of the Scorvey, with he addition of a new Symptom then appearing, which was a contraction of the Cheeks, was publihed in 1594. Hieron. Reusnerus , his Exercit. on the Survey, in 1600. Severinus Engalenns his Book of the Storvey, in 1604. Langius his two Epiftles on the Scorvey , in 1607, or 8. Horftius on the fame Difeale, in 1609. Stubendorf upon Eugalen, in 1614. Diner, Brunner, Bruceus, Albinus , Smid , Sennert. all Authors on the Scorvey, in 1622, 24, and 27. Befides these several others have Obiter and Cursofly touched on this Disease, as Baubinus, Dodoneus, Arricola, Carrichter, Dryander, Mithobius, Foreftus, Relfink , Barbet, and Twenty more.

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CHAP. XIX.

of the Prasages of the several Degrees and Kinds of Scorvey.

The fore knowledge of the Danger, various Mutations, Facility, or Difficulty of Cure of a Diffemper, is so necessary, that a Physician can by no means be thought accomplishe, that a not well instructed in that particular, for which reason I shall Congest what Observations others and my self have made upon it, and recommend them to your reading.

A Preliminary Scorvey, if not well diftinguishe,

and rightly Eured, may either be Transitory into dangerons Malignant continual Fevor, or a Liminary Scorvey, either of which may be prevented by a very facil Cure.

- § 2. A Recent Scorvey being neglected for fix as eight Months, either by not making use of moreons at all, or at least such as are ineffctual, passed into an Inveterate Scorvey, that generally prove very stubborn to Remedies; being in some cure by a long continued Course, in others only palliable, so that it's fræquently returnable, either every spring and Fall, or every Moon; in others it's productly incurable.
- § 3. An Hareditary, Connate, or Syntrophus Son
- § 4. A Contagious Scorvey being only Liminary, or Recent, yields eafier to Remedies, than one the is Non-naturally adventitious.
- 5 5. A Diftemper contracted by a Salin Air is not to obstinate, as one engendred by Dizt, provided the Patient takes the advantage of changing the Air.
- § 6. A Spienitique Scorvey is worfe than an Bpatic, and that also is worse than a Stomachic.
- § 7. An Acid Scorvey is more corrigible that Tixivial, and that more than a Supenary, with frequently proves Incurable. The measures of a Mouth, Leg, and Joynt-Scorvey in general, are rery consonant to the last praceding diffinction.

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1 New Differery of the Scorvey. 125

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58. An Aslbmatic, or Syncopal Scorvey, is atmided with danger, and oft with a sudden death;
Resumatic is tædious, and oft survened by a Fenor; a Torminous is ordinarily very deplorable, and
a Emetic diffemper is of æqual danger with the former and oft proves satal. Diarrheous and Lienteric
Surveys are very Chronical, and fræquenely Mortal.
I Flatuous Hypochondriac, an Ulcerous, and a Dolomer Scorvey are very difficultly conquered, or if ar
my time cured, are easily returnable.

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\$10. An English Scorvey is universally milder, ad less refractory than a Dutch Scorvey.

\$11. A Mild Scorvey may continue or be promided to ten, twenty, or thirty years; a Malignar one doth sometimes terminate Life in two, fix, at twelve Months, in some sooner, in others later; secarrive to their periods gradually, that is by a gradual decay of Spirits, and contabescency of tody; others die suddenly, and possibly when they affithink of it.

512. Spots and Blotches, the nearer they come to a black colour, the worse they are, and if they

burst out into Ulcers, fignise a greater Malignin, and difficulty of cure. It is observable, that is fome before they die, those Blotches do disappear by reverting into the Body, but soon after death appear again.

- but on the contrary if irritated, like Cancers, inducations or the contrary if irritated, like Cancers, inducations or Na ure, which frequently inclines to a Gangræne, and Mortification.
- § 14. Spets and Blotches of an Ash colour, especially of Corroding and Itching, in some are never cured. Cutaneous Tumors if apt to retrocede and burst out again præsage a Palsie. A Palsie though cured, leaveth a contraction of some of the Tandons, or a subjection to Convulsions behind it.
- Throat rurn Livid, that is Leadish, or Blackin, prognosticates Death to be at the door.
- § 16. A weak Pulse, and debility of Body in this Distemper are not alwayes dangerous, because that former may be occasioned by vapors and steems, and the latter by putrid Acid Blood. Neither are Gonvulsive Motions, that survene Scorbutic Feven of an æqual danger with those, that accompany other Distempers; for these soon cease, and there cause being Acrimonious steems, are in a short time dissipated.
- § 17. A Scorvey succeeding a Quartan Agut, or a continual Malignant Fevor, proves for the greater part very Malignant, Obstinate, and in some lacurable.

6 18.

6 18. Children and Boys are most incident to he Kings-Evil; and Joynt-Evil, young Men to the ngrant Gour, and old Men to the fixt nodous Gour. lovs and Girl; are not fo much exposed to the Scoron as men or women; because the Constitution of the former is not so Salin, as the latter, and therefore when at any time they are surprized with it. re easier Curable. Old men if Scorburic, carry heir Diftemper commonly along with them to meir grave. A Mouth-Scorvey is more familiar among the younger fort, and a Leg Storvey among hole that are past thirty.

\$ 19. A Body that hath been once cured of the Servey, if attacked the second, or third time, Thall! id the Cure to advance much more flowly than lefore.

Few Diftempers of this kind are remedied withon an exact Dize , though never fo flight , and if my be any thing Inveterate, or Terminatory, the beff Medicines without a Diæt avail nothing.

\$20. Terminative Scorveys, though curable , reure a long continuated first course of Medicines ;

ome are absolutely incurable.

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These Prognostics are to be understood absolutely confidered, without the help of Remedies, which being prescribed according to the Rules of Art, dexthously præpared, and methodically applied, aremiciently impowred to frustrate the most of præditions, alwayes that excepted, which implieth a Period determined by the Creator, whereunto this Trite Verficle hath its reference :

Contra vim mortis, non eft Medicamen in bortis.

CHAP. XX.

Of Praservatives against the Scorvey.

Causes, and Signs of Diseases, the Arrol Medleines doth acquiesce, but like other practice Sciences and Arts, designs its Theorems for Practice; wherefore since I have sufficiently laid dom whatever appertainent to the Theory of Scorbaic Infirmities, it's requisite I should now declare the Practic, which comprehends the Prophylattic and Theraptutic. The former being otherwise called the Conservative, in this case directs the mean whereby to practice a Healthy Body from the Scorber, which consist chiefly in Rules and Pracepted making use of the fix Non naturals.

S to Make choice of a thin ferene perflated la-Land Air, and therefore flun the Sea-cofts, Bog, Wateriff, Stinking, and Close places.

\$ 2. Let your Diæt be chiefly upon fresh Mean, that are Nutritive, of easie digesture, and not very Excrementicious; so that you must avoid all viduals that are stale, stinking, sale, gross, obstructive, excrementitious; and of hard digestion. Within the Verge of this Rule are means, that have been kept too long, until they had acquired a Pressi Haugon; likewise Pork, Brawn, and all forts of Hog-meat, as Black-puddens, Sausiges, Beef, Ducks, Geefe, Tripe, Flower Puddens; most sorts of fried Victoria.

Viduals, as Pancakes, Stakes, Eggs fried, Collops of Bacon, &c. most forts of Fish, Salats, all souced and Pickled meats, &c. which are all Scorbutic. Let your Drink be clear, well fermented, fresh, sweet, and temperate; not stale, or sowr, ill tasted, thick and muddy, heating, or cooling. Thus much for the quality; for quantity you must be moderate, in respect both of Eating and Drinking. Let your times of Meals be seasonable, seven in the morning, twelve at Noon, and seven at Night in the Summer, and in the Winter one Hour later. Your heakfast and Supper ought to be light, and moderate, but your Dinner somewhat more solid and plantiful. Particularly avoid Cossee, new raw Citer, Brandy, and Tobacco.

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63. Sleep moderately, use Exercise, but not indently, keep your body in order; that is between leose and Bound; shift your Linnen once or twice a Week, to prævent the stoppage of your Pores by the Condensation of Sweat, and sooty steems, that slick to your Shirt. What concerns the passions of the mind, I will only recommend to you the Old precept, B ne age, & letare, Do well and be cheared; and so here let us end this Chapter.

CHAP. XXI.

Of the Therapeutic in the Scorvey.

The Therapentic or Curative performs its part, by directing methodically Remedies, contained hithe Pharm scentic and Chirurgic.

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§ 1. The methodical Directions do flow from the indications, which are taken from two general Heads, viz. 1. From the Strength of the Body. And, 2. From the affections against Nature; from both which likewise Coindications and Counterindications are desumed. Among the affections against Nature, the Causes of a Disease, and in our Case of the Scorvey are the principal Indicants, next are the urgent Symptoms, and lastly the Disease it self.

§-2. The Salin Air among the Procatartics be ing the Ground and Original efficient, indicates in change into a better, which is fuch, as bath been described in the first Rule of the præceding Chapter; whose second Canon doth likewise contain Directions, that answers the indication, defumed from a Scorbutic Diær, another grand Efficient; these two together with the rest of the Non-namrals being provided against in the same Chapter, we are to apply our felves to those indications, which the internal antecedent Causes do point at, viz. I.A Salin putrid, or gross fuliginous coagulated acid Blood, indicates Remedies, virtuated to dulcify, attenuate, depurate the Humours of those footy particles, and volatilize the falin parts, that are too much fixed. 2. A falin lixivial thick chyme requires Remedies, that by obtusing the fiery alcalious Salts, may reduce it to an unctuous freetnefs, or Pingue-dulce, and through their inciding property render it thin and fluid. 3. A Saponary conflitution of the Blood doth affign Remedies, that obtain a power not only of allaying the alcalious qualities of the Salts, but also of depurating and volatilizing the incraffated fulphurous particles, that ere fixt and embodied with the Alcalious Salts.

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63. In respect of their too much increased quantity, they seem to direct the Physician to Diminution or Substraction, which is accomplished by Pharasentical and Chirurgical means. The latter are,

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1. Phlebotomy, for disburdening and depleting some per of the whole, which in Hepatic and Stomachic Scorveys is to be performed in the right arm; in a splenetic in the Lest, and in a Pleuritic Scorvey in the Arm of the same side. After a competent internal, for derivation from, and easing of the part affected, a particular substraction of Blood out of the Hemorrhoide veins by the application of Leeches is of great use in an Hepatic or Splenetic Scorvey. In Women, especially if there be either a total or partial suppression of the Mensser, the Saphena ought to be opened. The measure of what quantity of a Blood is requisite to be subducted, is to be taken from the degree of Plethory, Age, Sex, and other common Circumstances.

2. Fontanels or Isfues, than which no means, whether Chirurgical, or Pharmaceutical, feem more advantageous and necessary, both for a præservative, and curative. Touching the place, where an Ifue : h most proper to be made; in a Splenetic Scorvey is in the infide of the Leg above the Knee, an inch. or two higher than the Garrering place; but here the Surgeon is to be very cautious, that in making the incision, he doth not wound some of the Vessels, that pass just underneath, which is frequently done I made too deep, and fomerimes not without danger. In an Hepatic Scervey the right Leg is most proper, in a Stomachic either, it matters not. Mouth Scorvey indicates an Iffue in the Left Arm, or in some cases in the Neck, or Right Arm, or in some very few on the Head, on the place of meeting of the Sagittal and Coronary Suturs. In the

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Lig-Scorvey an issue above the Knee is more rational. In the Joynt-Scorvey more Fontanels than one are necessary, to be made in the Arm or Leg, and sometimes in the Neck also, according to the discumstances of the Discale.

Children that are born of Scorbutic Parents, receive a great benefit from Issues, that are made in the Neck or Arm; but for prævention, that the Scorbutic stain wherewith some Child bearing Women are contaminated, shall be communicated to the Child in the Womb, nothing is of æqual force to an Issue in the Arm. The too much increased quantity of Scorbutic Humours indicating Pharmaceutcal evacuations, is to be diminished, or abated by Laratives or Eccoprotics, and Purgatives or Cathartics. The former are usually præmised before Bleeding (where required) and Purgatives.

CHAP. XXII.

Of Antiscorbutic Laxatives

Bests of most Purgative, and indeed the Bests of most Purgative Pills; but in regard that it's offensive to the Stomach and Liver, and that by reason of its bitter Acrimonious Lixivial parts, it's of a nature so Colliquative, and Intuiting, that it's apt to force the Blood out of its Vestelles, and particularly to excite a Tenesmus, and Hamorrhoidal pains, necessarily requires such Correction and Praparation, as may render it not only less hurrful, but also particularly appropriated to the Stomach. The praparation, which I have fraquently

A New Discovery of the Scorvey. 133 mently experienced, to excel all others, is this following.

R. Aloes Succotr. grof. pul. 3 i.

Flor. Roj. rub. 3 i. ss.

Spir. Sal. com. gut. xl.

Spir. Vin. non rectif. ad.

Supereminent. iv. digit.

f. digest. in ciner. per bor. xii.

coletur & evapor. ad extr. consist. cui adde Ol.

Garyophyl. vel. Nuc.

Mulcat. stillat. gut. xx.

Dos. a gr. xv. ad. lx.

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52. The Francfurt Pills, otherwise called Pil. Angelica, invented by Hartman Beyer, have not only kept up their Reputation for many years, but to this day are accounted of great Vertue in Germany and Holland against Scorbutic Distempers, insomuch, that many thouland Boxes of them are every year dispersed to all Neighbouring, and some remote Countries also, so that they are found to be as stabil a Commodity to the Francfurter Apothecaries, as Treacle to the Venetians , or Confectio Albermes to those of Monpellier. The gain that hath been acquired by them, is the occasion their Præparatichath been kept fo private, though at present is rown publick enough. The description I had of it at Francfurt is various, fome præparing them one way, some another, though in the whole it comes much to one. The most received Praparation is that, which confifts of an incomplete and complete extract of Aloes. In manner following,

The incomplete Extract is.

R. Aloes Succotr. 16 f.
Aq. Borrag. 16 i. fs.
Diger. per bor. xxiv.
colatura fort. express.
evap. ad consistentiam.

The complete Extract is.

Materiæ inspissat. assund. Suc. Card. Ben. Z vi. aliis Z viii. Digerant rursus per bor. vi. & expressio evaporet, ad spissit. Extract.

§ 3. In Italy the præparation of Fabritius ab Aquapendente was, and is still of æqual Fame with the former, and is nothing but Aloes Rosata, whereof the said Fabritius for many years together was wont to take every day a little before his Supperhalf a Scruple, for a præventive of Diseases and a prolongative of Life. Leonard. Donatus writ an entire Tract upon the Description, Vertues, and Use of Aloes Rosata, concluding the last Chapter with this Expression, That as the Romans anciently through Sobriety lived to the Age of Six Hundred Years, so he hoped to live no less by the use of Aloes Rosata.

Bontius his Pil. Tartar. are also of excellent use for the same purpose, the Description whereof you have in Scroders Pharmac.

\$ 4. It is among the Records of Experience, that Aloetic Pills are a most safe and effectual Pracervative from the Scorvey, being at convenient times.

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times used once or twice a Week or oftner; they are likewise a great Præparative, that may be præmised before a Curative method of a Recent, and inveterate Scorvey. They offer no violence to Nature, which the Vulgar Mountebane's Universal, or Scorbatic Pills, Elixirs and prætended purgative Cordials do in so rude a measure, that many have and daily do purchase them with the loss of their Lives. Were I obliged to set down the Names of all those bold adventrous Elixir-purchasers, or Pill-Chapmen, that in one Year only are untimely postedaway to their Graves by those Deleterious Medicies, it is not twice the Bulk of this Treatise would contain a space large enough for a Register.

How gently those Alortic Pills cleanse the Stomach, the Gues, and Mesarias of their Drossy Mucilaginous and Tartarous Dregs, and that without the least perturbation of Humours, alteration of Body change of Countenance, impair of Strength, or any ill attendance, may be admired. That they gently remove obstructions, excite an Appetite, and render the Body vigorous and prompt to motion, is a most certain Truth.

§ 5. Two particulars are to be observed; The one is in relation to their Præparation, viz. That they be præpared singly, without the admixture of those prætended correctives contained in the Composition of Hiera Picra, Ruffi, Mastichin, and such like; for all that Farrago or Miscellany of Asarum spic, croc. &c. in the Hiera; Myrrhs and Saffron in the Ruffi, doth not only so much increase the mole of a Dose, that instead of two Pills of simple Alottics, you are obliged to swallow down Eight or Nine, but it occasions also a Turnuluation and Ebullition

Ebullition in the Stomach, and all the Vessel, inflames the Body, and sets all the Humours affort.

The second is in relation to their proper Use and Exhibition, where you are to take notice, that they are only appropriated to an Acid Scorvey, being otherwise very prajudicial in a Lixivial and Saponary Scorvey, also to all hot and dry Temperaments, lean and thin habits of Body, and such as are subject to Hemorrhages of the Nose or Hemorrhages, or excessive Menstrua.

5 6. The Laxatives proper in a Lixivial or Soponary Scorvey, are Polypody, Sem. Cartham. Epithym. Cassia, Manna, Tamarind. Prun. dam. Passul. Tartar. Rhen. Crud. Crem. Tartar. Syr. Ros. Sol. Out of these may be composed Decoctions or Bolos's; or instead of them may be substituted Laxative Glysters.

CHAP. XXIII.

Of Scorbutic Purgatives.

Great Bymical Practifers cannot with greater Truth affirm, that Antimony is capable to Cure all Difeases, then in the same sense I may considerally affere, that Senna before all others is the most noble, safe, and effectual Vegetable Purgarive, whereby most Distempers depending upon a Gaochymy, may be perfectly removed, and especially shose that are Sourbutic.

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gaires, that seem to be specifically appropriated to Scorbutic Gaeochymies. Besides these, all Hybridge all Catharties in general are experienced, to marain a pecusiar faculty of Evacuating, and purging abounding vitiated Acid Salts, and among those for a Rham. Cath. is preserred for a mild and safe that Cathartie. Those of a more rude nature, and consequently more proper for robust Bodies, and interested Diseases, are Elater. Gut. Gamb. Gialap.

Lett. Eful. Suc. irridis noster soldanel.

Gum Cathartics in obstinate Cases are of admirable Venues, but must be used in their due season; such me Gum Ammoniac especially, Opapanax and Saga-

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5 2. Thus much for the Simples, the Compois are these following; but before I proceed up. on them, let me recommend one rule of Caurion to you, that the less Compounded Medicines are, the more certain are their effects, and less subject to diffurb the Spirits: For a Medicine that confifts of manifold Ingredients, though perchance it may perform the same Operation, will occasion a greater Perturbation, and with so much uncertainty, that you shall not know, to which of the Ingredients, the fuccess is to be chiefly ascribed. Moreover, though for Ornament and the Dubiousness of the Diflemper, a Polypharmacal præfcription may be allowed, yet in Scorbutic Maladies, where the blood upon the least irritation is so apt to be exagitated, and moved into a tumultuous Ebullition or oprag-MG, it's incompatible.

§ 4. Secondly, Be mindful of this Remarque, that Scorbutics, because they are so much exposed

no an Oppression, and Depauperation of Vital and Animal Spirits, as appears by their low inaqual Pulses, the imbecillity of their Joynes, and oppressed Respiration, cannot bear much purging, especially by violent Catharties, neither is there that Concoction (manes) nor Separation (Iranspires) of Humours, which are necessary before Evacuations; wherefore purge seldom, and that only with gentle Medicines, unless the robust Constitution of the Body, or the Radication or Greatness of the Distemper should require it.

5'5. The forms of Purgative Præscriptions, vin

R. Rad. Polypod. q. Helen. an. 3 is. Fol. Agrimon. Asplen. an. M i. is. Sum. Absynth. P. i. Passul. m. 3 i. Fol. Sen. or m. 3 vi. Agar. abis. 3 i. is. Tartar. Rhenan. 3 i. Zing. 9 ii. is. Coq. in Aq. Fon. q. s. in Colat. ib l. dissolv. Syr. Ros. sol. 3 i. is.
M. f. Apoz. pro iii. dos. matut.

5 6.

Of a Powder.

B. Crystal. Tartar. 9 ii.

Flor. Sal. Armon. chal. 9 s.

Scammon. Sulphur. gr. vi. vel vili.

M. f. Pul.

Capiend. in juscul. cochl. i. vel ii.

5.7.

Of Pills.

R. Fol. Sen. or. 3 ii, Nitr. Tartar. 3 i. Resin. Scammon. 9 i.

Ol. Garyophyl. gut. x. Syr. è Rham. Cath. q. s. M. f. Mass. Pil. Dos. 3 i.

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Others of great vertue.

R. Aloes prap. nost. vel Rosat. 3 ss.

Tartar. Vitriolat. 3 i.

Resin. Gialap. gr. iv. vel v.

Ol. Garyophyl. gut. il,

Syr. Ros. sol. q. s.

M. f. Pill. vii.

Deaurentur.

§ 8. Of an Electuary.

R. Mechoacan. ras. 9 i.
Gialap. pulv. gr. xv.
Ol. Stil. Macis. gut. iv. Man. Calabr,
Pulp. Tamarind. aq. 3 ii.
Sy Ros. sol. q. s.
M. f. Elect.

This last praceding I have oft in a Lixivial Storvey prascribed with success to those, whose Stomach could not bear an ill tasted Medicine.

CHAP. XXIV.

Of Antifcorbutic Alteratives.

5 1. IN an Acid Scorvey these following are affimated Specific Antiscorbutics, viz. Cochlearis

learia Hort. Garden Scorvey-grass, being the chief of all the rest, the next is Nasturtium aquaticum Water-cresses, Becabunga Brooklime, Sedum miniman Wall-peper, Armoracia Horse radish, Persicala Arsmart, Arum Wakerobin, Semen sinapi Mustardseed, Semen Eruca Rocket-seed, Saponaria Soopwort, Chelidonium mijus Selandine, Guaiacum Contex Winterani, the Flowers and Spirits of Sal Armoniac, Spirit of Soot, and of Harts-born.

S 2. There are also other Simples, which though they are not Virtuated with so Specific and Antiscorbutic a faculty, yet by deobstructing and deterging the Bowels and Mesentery, and attenuting the gross Tartarous Blood, they are oft experienced singularly to contribute to the Cure of Scorbutics, viz. Rhaponticum verum, Helenium Elicampane, Iris Florent. Orris Gentiana, Centaurium minus, Absynth. Wormwood, Betonica Betony, Salvia Sage, Petasitis Butter-burre, Filix Fern, Chamadris Germander, Bacca Juniperi, Sambuci Elder, Ebuli Dwarf-Elder, Saturei. Hereunto may be added the common Splenetic Vegetables, as Fumaria Fumitory, Cort Rad. Cappar the Bark of Capper-scot, Cont. Tamarisc. Cart. Fraxini Bark of Ash, Ceterach Spleenwort, Agrimonia, &c.

The Hermetic Art recommends Tindur. tartari,

Tinct. Antimon. tartar. Elix. Proprietat.

The ordinary Chymical Salts, as Sal Absorb. Cochlear. Card. Centaur. by as much as they participate of the Nature of Common Salt, are absolutely hurtful. Among the common Spices, Pepper is experienced to be of an Ebullitious nature, and very præjudicial to all Scorburies, and therefore ought to be omitted in those Præscriptious the Learned Quantan hath recommended to the Publick.

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1 New Difcovery of the Scorvey. 141

What concerns the forms of Compositions out of these forementioned Simples, it is to be remarked, that Electuaries, Tablets, Powders, and Syrups also, unless prepared according to that or the like namer I shall propose below, are of little or no the, and are only interspersed by Authors among their forms for pomp, or to add to the bulk of their Tracts; for it's the Volatil Salt is the sole energic part of these Vegetables, which in the preparation of Conserves, and Syrups, and in reducing them into Powders for the use of Tablets, doth evaporate; wherefore I shall only offer to you some twiselect Forms of Decoctions, Insusions, Distill'd Waters, Spirits, and Juices.

§ 3. The form of a Decoction of hittle trouble, and less charge, but of great virtue.

R. Scob. Lign. Sanct. 3 ii. Lign. Sassafr. 3 i. Sal Tartar. 3 i.

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coq. in Aq. font. To iv. ad consumpt. medietat. in Colat. infund. fol. Cochlear. hort. M. iv. Becabung. M. il. Absynth. M. ss. cort. aurant. 3 il. Coletur & reservetur in Ampul. Vitr. Dos. 3 iv. ter per diem boris Medicis.

In the Winter when Herbs are scarce, I have feequently recommended this following with good success.

R. Fol Cochlear. M. iv. Chelidon. maj. M. ii. Bac. Junip. Z i.

Tentundantr. in mort. marm. sensim affund. Vinalb. rennier. 16 i. exprimatur Liquor & reponatur.

tur in Ampul. vitr. qui residendo clarescat. Des.

5 5. Of a Liquor by expression of Juices.

R. Fol. Cochlear. Succulent. q. l. Fol. Becabung.

Nasturt. aquat. an. part. med. Contund. in app. marm. pist. lign. Liq. valide express. Ib il adjiciantur. Cort. Winteran. 3 is. Cort. axin, aurant. 3 is. Croc. Anglic. 3 is. in phiola probe obturata per hor. 12. digerantur calore leni, din liq. coletur & in vitr. reponatur. Dos. 3 iv. bis per diem.

§ 6. A Liquor by Infufion.

R. Rad. Armoras. 3 i.
Rad. Gentian. 3 ii.
Fol. Nastur. aq. M ii.
Fol. chamed. Saponar. an. M i.
Flor. Centaur. min. P i.
-Rad. Zedoar. 3 i.

f. infus. per nott. in Aq. Sassafr. odorif. Vin. alk an. To i. coletr. de volat. capiat. Z iii. vel iv. pn Doss.

5 7. R. Rad. Helen. rec. 3 ii. Rapban. 3 i. fs.

Lign. Saffafr. 3 i. Fol. Cochl. Cicher. an. M. x. Fol. Salv. Beton. an. M ii.

Sed. min. Perficar. an. Mi.

Baccur. rec. Junip. Samb. an 3 ii.
Distillentur per vesic. cum refrigerio suspendendo is
rostro alembic. croc. anglic. in pet. legat. 3 i. s.
capiat 3 ii. pro Dos.

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§ 8. Spirits that are drawn by way of Fermenmion do, besides the trouble and length of time required, suffer a considerable loss in their Volatil and Spirituous particles, which to evade, hath giren me the occasion to find out a way, whereby the sid Spirits are extracted in a greater quantity with very little Trouble or Cost, and much exalted in their virtues. This following I have oft Distilled, which may serve for a form for all the rest of the sid Antiscorbutic Vegerables.

R. Rad. Armorac. 3 iii.

Dof.

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IV.

Lig. Saffafr. Cort. Win. Aur. an. 3 is.

Fol. Salvia M i.

Sum. Absynth. vulg. Pi.

Sal. Armoniac. 3 ii.

Vin. alb. 16 1. contusa & concisa digerantur per bor. xxiv. dein. destil. per Alemb. vitr. in cujus cucurb. suerit calc. Viv. 16 ss. Dos. à gut. xx. ad gut. xl.

§ 9. An Antiscorbutick Syrup.

R. Succ. rec. expr. Cochlear. 3 viii. Suc. Anagal. aquat. 3 iii. Suc. Betonic. Card. Ben. an. 3 i. Sacchar. alb. 15 i. depurando

Coq. ad spissis. Syr. crass. cui frigefact. affund. Spir. Cochlear. & Anagal. Aq. pradicto modo fimul. destil. 3 i.

M.f. Syr.

pared according to the process of Crollius, it's a Medicine beyond all Objections very proper against the Starter; but two inconveniencies I apprehend in it, 4. By the immediate affusion of so great a proportion

rion of Spirit of Sulphur, the other Ingredient an adulted or burned, whence the Elizar afterward contracts an Empereumanic feent and tafte. 2. By reason of the various Digestions and Distillations consumed a great deal of time, attended with some needless Cost and Charge. Both these the Costed of Physicians of the Hague endeavoured to avoid by directing the procedure in their Pharmatopes, Fol. 106, in this manner,

R. Alees puriss. Myr. Elect.
Croc. Anglic. 211 3 i.
Tritis ac vasi vitreo angust. orisic.
Inditis, superassunde.
Spir. Vin. rect. 154. ss.
Ol. Sulphur. red. 3 vt.

Vaje optime clauso f. digest. in VB. per die quatuordecim; tinctura abstrabatur, que per decant. separata servetur usui.

Although by this prescription they seem to have superated those two fore-mentioned Inconvenients; there is a third remaining, which renders it very lacommodious for exhibition, namely that upon the Instillation thereof into any Aqueous liquor, it's apt to be precipitated in the form of a mucilage, all which to avoid hath given me the occasion, to prepare the Elizar Proprietatis thus:

R. Aloes Succotr. Myr. Elect. an. 3 i.
Sal. Marin. bene exiccat. 3 iv.
Distil. per retort. vitr. in aren. oleo distil. assaul
Jpir. vin. rect. Hb i. ss. spir. salis rect. 31. addendi
Croc. arglic. 3 i. post digest. 4. dier. in ciner. de
cant.

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Vel.

Adjiciatur Croc. Angl. 3 (S. & diger. per dies 4. dein distil. in cucurbit. bumil. appendendo extremitat. rostri alembic. croc. odoratis. nodul. inclus. 3 (S.

Guitula oleosa supernatantes separentur per tritor. & Saccharo albis. dissolut. addantur liquori distil-

lato.

§ 11. Medicines præpared of Steel have their pricular uses, even in this fort of Scorvey, being kligned to sweeten the Blood, by obtusing or alaym, and imbibing the putrid Acid Salts of the Mood; to this purpose the Learned Oxonian Author in fingle out from all other præparations that an of Crocus Martis, which by a long continuated Climation is elevated into an Acool, and totally hipped of its Salin and Sulphurous particles, imaming that the foresaid crocus through its droughty Mure, doth Appetere and Absorb all Acrimonious his and Sulphurs of the Humours, as being Conintaneous to those it is now deprived of. This la-the apt all dee of Reasoning is most certainly verified in the Nature and effects of Antimonium Diaphoreticum, ural, Pearl, &c. But nothing is more Erroneous, tan the applying it to the Atiology (as he may trm it) of that kind of Crocus Martis; for abstract from it Vinegar, or any other Acid, by Destillation, and you shall experience it, to come over every whit as Acid, as when it was Affuled. Wherefore trought to be abandoned from being used in any Diffemper, excepting in some Loosnesses or Hanorthages, where and when Emplastics may be adged ferviceable, and in those cases I have obserted the Effects of Terra damnata Vitriol dulc. far nore ample, having oft præscribed it with Success.

\$ 12. All preparations of Steel, that confil is the form of Powders are attended with an unwol able inconvenience, being apt through their weld to descend to the bottom of the Stomach, and for times to penetrate through the pores of the in Tunic, and there lodg between the Tunics, occasi ning fo great an oppression, that the Patient is re dred subject to almost incurable Palpitations Lipothymies; for the Steel Powder is only with the greatest difficulty, and sometimes never to be Is pelled from between the Tunics; infomuch a under that notion it may be termed Synonym with Venoms, against which the Magnet Stone po dered and exhibited Internally, is the only dote. Not many years fince I differted one expired of a Dyfentery, against which an Apal ry had for many dayes given two and three Dr of Crecus Martis aftring, for a Dole; the famen paration that is fo much Extoll'd by my And Upon the separating of the Tunica Rugofa from the middle Tunic, I detected a vaft quantity of n fand, which upon Examination of what had b taken, I found was fome of the Crocus Martin skilful Glyfter-pipe Doctor had given.

\$ 13. Those that confider Salts to be diffold præfer Vitriolum Martis before Chalybeat Powe defigning thereby to avoid the Permanence of latter in the Body; but then are certainly Frui ted in their scope of reserating oppilations, t being nothing fo pravalent in an Obstructive Aftrictive quality, as the foresaid Vitriol of Si which that you may give the greater credit to, I do discover to you as a great Medicine for ste ing Hæmorrhages, and it is by this fole prapara

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live cured a great number of spirting of Blood, a several Women of immoderate Uterin Fluors, and several Women of immoderate Uterin Fluors, and senguinolent, and White. Wherefore it must be defined an Error Albo catculo notandus in those, a pracend to imitate Directic Mineral Waters, as the Savenier at the Spaw, and the Wells of desige, by dissolving of Chalybeat Vitriol in lag-Water: but how great a Detriment this must atlarily import, may be best understood from the state of the second from the second f

Touching the use of Purgative mineral Waters, Barnet, Epsom, Dulledg, Chigwel, Streetham, thall, &c. To some Scorbutics they have proved

alliary, to others Hurtful.

§ 14. The Virtue of those Diurerique mineral ters is derived, from a permixture of fome ide Elements of Iron, imperfectly Coagulated or Compounded into Particles, with Water fourcing har and washing through the Matrices of the faid ande imperfect ferruginous Elements; or to be Meters do confift of a foliation of Vitriolat Salt, volatilized by the Sulwof Iron. From the Vitriol it is , the Water disposed to turn black upon the addition of Galls; men the Volatilizing Sulphur affociating to it fome the Subtileft', Acid , Piercing , and Infinuating frudes of the Vitriol, it is, that they prove lo corlent in driving down the Urin; and from the Istalability of the faid Volatil Salt or Sulphur, vo latilizie H 2

latilizing the pureft part of the fixt Salt, itis, they upon a very small interval loose their Diuresic Vir. tue, especially if violently shaken or moved, by be ing transported by Horse or Cart; though notwin Itanding that, they will not leffen in their apmelie turning black by Galls, as long as they continu Imprægnated with the fixt Vitriolat Salt, which per bably may be long enough; but in the Interior would have you to escape that Error, many unes lisht Philosophers commit, in judging the said We ter to continue vigorous in it's Urinating quality as long as it continues alterable by Galls. On the contrary, as foon as it hath fuffered the loss of all in Volatil Salt, which is in very few dayes, it dother fume a binding obstructive quality, and thanh 6 dangerous a manner, that fome have died of its for the Water remaining in their Bodies, and to being carried off, had suffocated the Vital flame of the Heart and Arteries.

Those that have made Observation on the number of such, that have been hurried out of the World both at the season of their drinking the Waters of Tunbridge, or soon after they had left them of any very well conclude, either that the said Waters were not proper for their Distemper, or that a too frequently happens their Podies were insufficiently præpared; for it is far from a proportionable præparative, to Exhibit only a Dose of Somach Pills, or a little Pulv. Senæ. comp. maj. but up on the use of a proper Purge or two, some god Aperitive præparation of Steel ought likewise to knikt with a Cathartique, and then they will Experience their Bodies to have been well præpared by the safe and successful use of the Waters upon it.

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615. The Waters of Barnet, Epfom, &c. are renand Diuretic, Purgative, and fometimes Vomitive bough an Imbition of fome immature principles d copper, as appears on the tryal by Lapis Calamimis, or Sal Armoniac. The Cathartique and merique faculties iffue from the Sulphur of Ve-

Among other numerous capricious Chalybeat reparations, I find no form fo agreeable, and the prepared after the usual flovenish mode.

The forts of Dulcifying medicines in many Cases

The prederfully contribute to the Contribut reatly successful, as the Tincture of Steel; but not by derfully contribute to the Cure of an Acid ich are most Testaceous Simples, as Coral, Pearl, trabs Eyes, Crabs-Claws; Oyfter, Mufcel, and Egg. hells; add to these Antimonium Diaphoreticum, Beward. Mineral. Bezoard. Jovial. Magister Jovis challes &c.

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CHAP XXIV.

Of Specific Alteratives in a Lixivial and Saponary Scorvey.

THE Simples that are indued either; 1. With 2 With an Acidity. Or, 3. With a cooling detergent Faculty, are afteemed very proper, and weful in an Alcalious Scorbut. Through the first of: these Qualities, they lenify and mitigate the Acri-H:3.

monious Salts of the Humors; through the second they Hebetate the corroding Alcali; and through the third, they move, attenuate and divel the Padalom parts of the Blood, withall Clarifying or Depurating it from its Impurities.

1. Of the first Order. Are,

Borrage, Bugloss, Violets, Mallows, Marsh mallows, the four greater Cold seeds, Jujubees, Somfiens, Corrents, Liquorish; Gum Arabic, Dragan, Milk, and in some Cales the Milk Diet.

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2. Of the fecond Qualification. Are,

Acetofa Sorrel, Trifolium Acetofum, Wood-Sorrel, Oranges, Limons, Citrons, Cremor and Spiritus Tatari, Spiritus Diana, Spir. Sulpharis, Vitrioli, Sult com. nitri, Veneris ex arugine, Autimonii, Spir. acid. Guiac. Juniper, Liquor Corallorum, Perlarum, Cryfaliacida nitri, &c.

3. Of the third Ranck. Are,

Ligustrum Privet, Aparine Clivers, Cheliamina minus Pilewort, Nummularia money-wort.

4. These four are by Authors proclaimed Specifics in the Scorvey, the frequent Experience of their Use in some Scorbutiques confirming them to be such; but their Ignorance, through what manifest Virtue their Effects are performed (these being diametrically contrary to the other Ignous Volatil Specifics) renders them incapable of judging, method what fort of Distemper, in what manner, and a what time they ought to be applied. A while since, a Patient made her complaint to me of sharp running pains, slying up and down her Limbs, a pricking in her Gums, glowing of the Calves of her Legs, and sometimes of the Shin, a gnawing pain about her Ancles, especially much stirring, hears and pushles in her stace. In had made use of several Physicians, whose Opician

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meduded her Distemper to be the Scorvey, and ferefore had præscribed several Decostions, and fessions of Scorvey-grajs, Water cresses, &c. Distill'd Water, and Spirits of the like Ingredients, all which he found, had rendred her much worse, but some two Years before, consessed she had derived much beseit from them, but now they extremely aggranted her Symptomes. This method of Cure I permitted depended on Indications, desumed from shose pestilent principles of Rancid and Pendulous. The Error slowed from apprehending this an Acid Survey, which plainly appeared to be Lixivial. It prascribed her this Lenivive:

R. Pulp. Cass.

Tamarind. an. 3 ii.

Mechoachan. alb. ras 3 is.

Pulv. sen. comp. maj. 3 is.

Crem. Tar. 9 i.

Syr. ros sol. 3 ii.

M. f. Bol. ii.

Deaurentur.

Capiat mane cum custodia.

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This Operated very gently and well, upon one days interval it was repeated. The fourth day the took this following Drink, and continued it three: Weeks.

R. Rad. Buglof. 3 i. fs.
Fol. Aparin.
Nummular. an. M. iv.
Decoq. in Ser. latt. q. s. ad Ib i fs.
In colat. diffolv. Cryft. Far. 3 i fs.
M. L. Apoz. pro 4 dof. mat. & vefp.

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Once a Week she made use of the above written Bole. In the space of her whole Course of Physical fick, the was Blooded once in the Right Arm, and once at the Hemorrhoides. The success of these means restored her perfectly to her former Health. in less than a month, which she hath enjoyed ever fince. How eafily is a Diftemper cured, whole Cause is rightly understood; whereas had this Woman adhæred to the præscriptions of her pendulom Physicians, she would certainly have been among her Ancestors long ere this. Others I cured of the fame kind of Scorvey (Pramiffis Universalibus) chiefly by this following:

R. Rad. Sarfaparil. 3 iii. Rad. Chin. non cariof. 3 1. Rafur. Eboris 3 vi. coq. in ag. font. To vi. ad consumpt. unius tertia, fub fin. coft. adde. Rad. Cichor. Scorgon. an. i. 3 fs. Fol. Chelidon. min. M. vi. Colature affunde. Elix. Antimon. fulv. 3 i. fs.

Capiat & iv. ter per diem boris Medicis.

Note, that Sarfa and China are made use of in this Decoction not for their Sudorifique faculty, but for a quality they are endued with of sweetning the Blood, by obtufing its Acrimonious Salts, through the Lentour which their farinaceous substance contributes to the faid Decoction.

5. To those four principal Antiscorbutic Vegetables may be added these following, Scorgonna Hif. Vipers-Grals, Clematis Daphnoides Periwinckle,

Rhaponticum

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shaponticum vulgare Great Centuary, Virga Aurea Golden Rod, Rumex acutus Ditchdock, Hispidula Causoot, Auricula Muris Mouscare, Aquilegia Columbine, Rad. Graminis, Geranium Rupertianum Herb Robert, Pyrola Sea-lavender, Ciohoreum Succory,

Simpervioum majus Housleek, &c.

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6. The difference in qualities of these Simples cannot escape your Advertency (though all agreeing in the same faculty, of oppugning Lixivial and Saponary Scorveys) some being temperate, some cold and moift, others cold and dry, and aftringent; for which reason you may presume, their use is limitted to Diseases, though Lixivial, yet attended with particular Symptoms, fo that they are not promiscuously to be applied. But because Practical inflances may ferve you for a more clear Example. I will give my felf that trouble of fetting down the Case of a Patient, who repaired to me the last praeeding Year; It was a great heat in the Epigastrical Region of the Abdomen, that chiefly incommoded him, which for the most part exercifing its fury in a fixt place, that fometimes was at the bottom of the Stomach, fometimes a little lower (which must be in the Pancreas) and fometimes on the Left-fide, where the Splein refides; fo that here was a Lixivial Scorbutic Humour, that from the Spleen was toffed to and fro to the Stomach, or sometimes to the Panereas through the Splenic branch and Vas Breve; the other Symptoms were a nidorulent crudity of the Stomach, a dejected Appetite, thick reddy formous Urin, low inæqual Pulle, difficulty of Breang, and purpure Puffles erupting and retroceding in the Face, Those several emment Physicians (that seminent for a numerous Practice) subsequent to their Opinion that it was the Scorvey, had for feveral years treated him, with those common igneous

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Antifeorbutics, until his daily Experience of the praferibed Medicines discovered to him, it was no those unskilful Couries of Physick he must impute a great part of the growth of this Discase. His Body being very thin and exanguious counter indicated Bleeding. The Gradities of his Stomach and Infartises of the Majaraine Vessels by Lixivial pendulus Blood required Lenitives, mixt with some gentle Catharties.

Pk. Bleth Lenitiv. Man. Calub.

Pulp. Tamarind. an. 3 ii. fs.

Nitr. Tartar. noftr. gr. xxv.

Diff. in decoti. Prunor. dam. & fem. fan. 3 ii.

M. f. Pot.

This he used twice a week; in his interval days took this following Drink for five Weeks, and we perfectly restored to his former Health; but for confirmation of his Cure, I ordered him to drink the Waters at Tumbridge for one and twenty days.

R. Rad. Tarax. 3 i.

Fol. Chebidon. min. M iii.

Semperatu. maj. M i.

Glycyn. raf. 3 is.

Coq. in fer. latt. q. s. ad ib i.

Cotetur. & instil. Elix. Antiscorb. mostr. Iii.

M. f. Apoz.

Sine faotbar. vel Syr.

5 7. To another Scorbatique whose Palpirations and Lypothemies had rendred him very language and weak, besides Purgatives and Bleeding at the Mannershoides, præseribed this.

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Ri. Rad. Scorzon.

Vincetox. an. 3 i.

Fol. Chelidon. min.

Aparin. an. M ii.

Virg. Aur. M i.

Hord. Mund. P i.

Glycyr. raf. 3 i. ss.

Coq. in Aq. font. q. s. ad 15 i. ss.

In Colat. disolv. nitr. Tartay. 3 i. & infili. tindi
mart. gut. xv.

M. f. Apoz.

Capiat 3 iv. ter per diem boris Medicis.

In case a Scorbutique of this kind is afflicted with a Diarhoza, or Dysentery, you must make choice of Ligustrum, Auricul. Muris, or Hispidula; if Dysepublic Uleers of the Legs be the pravailing Symptoms, prafer Virg. Aur. Pyrola, Symphyt. Petr. on Relic.

It is this fort of Scorrey and its subdivisions (which hitherto hath not been observed by any) that occasions so many ambulative Patients, wandring from one Physician to another, among whom some are to ingenious to consels, they do not know what name to give the Distemper, or what so under of it.

§ 8. Besides these sorementioned There founds a singular Virtue in Steel drops, prepared astermy mode; likewise in an Elixir Antiscorbuticum, the basis whereof is Antimony stripped of its venenous. Sulpbur, and rendred Cooling, Diuretic, and a nery high Mundisser of the Blood. Neither have I ever observed a medicine in most Scorbutic Cases, and exceed the powerful faculties of my Nierum Tartanglum, the preparation whereof is, as followeth;

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but for your pravious information, you are to take notice, that in præparing Antimonium Diaphoreticum, I am used to add a triple proportion of Salt Peter. polverised and fifted, to crude Antimony, likewise pondered and fifted; this being mixt rogether, I put by little Ladlefuls into a Pipkin made Red hot in a Reverberaring Fornace, covering the Pipkin up on every Injection of the faid mixture; and having injected all, I cover the Fornace with a great Tile, and let it Calcine, until the Coals be burned out. The Mass being yet warm I pouder, and put it into a large Bason, on which supposing the mass to be a Pound in weight, I pour about a quart of warm Water, and ftir it very well about, afterwards let It fland four or five hours, that the Powder may fettle on the bottom, decant the Water into an Evaporating body, affufing to it half a pint of distill'd Vinegar, evaporate it to a Pellicle, and fet it in a Cellar or other coof place, and there let it continue three or four days to Crystalize; collect the Crystals, and evaporate the remaining Liquor again to. a Pellicle, afterwards fet it on Cryftalizing, and fo proceed, until all is passed into Crystals. Dissolve the Crystals into distilled Spring-water, strain it, Evaporate and Crystalize it over again, until it prove very pure and transparent. What relates to the remaining Calx of Antimony, proceed to your ablutions, until the Powder be perfectly Edulcorated; It is not here I defift, but make a farther progress to a maturation, and protrufion of the effential or centrical Sulphur, and then I find it to be a Medicine, that deserves a singular Character in many Diftempers.

of Nitrum Tartarifatum, without giving a descripti-

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on of its Dose and Virtues; from half a Scruple to wo Scruples, it hath performed effects in the Scorvery and some other Chronical Distempers, which could never be expected from the Arcanum Dublicatum, Tartarum Vitriolatum, or fuch Hermaphroditic preparations, and Neutral Medicines; for besides in penetrative, incifive, detergent, and deoppilafive Qualities, it doth retain a proportion of Animonial Salt, Centrical Sulphur, and a true Idea of what ever excellent Faculties Antimony in its best preparation is enricht with, fo that there is scarce any Impurity (whether manifest or latent) in the blood or bowels, that can escape its energy; but when you have made use of as many Ounces of this Nitrum Tartarifatum as I have, I doubt not but you will have cause to give the same Character of it I have here Expressed.

CHAP. XXV.

Of the Cure of a Stomachic Acid Scorvey.

I must necessarily pramise one Observation touching the structure of the Stomach, before I can render the Indications plain and obvious. Its contexture doth consist in four membranes. The first I call the Tunica Mucosa, or the simy Coat, being destined by Nature for a desence of the nervous Tunic from those Acrimonious moistures, the Stomach upon every digestion doth abound with. This Tunic if at any time it be abraded.

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ded, occasions great Pains, Vellications, continua Singultitions, and enormous Vomitings. The fecond from those various Sulcations and Wrincklings may aprly be termed the Tunica Rugofa. This Tunic very Nervous, and consequently indued with a most exquifite fenfibility, derived from the Ramifican ons of the External branch of the fixth pair . and from the Plexus fexti paris mefentericus; the use ofk is, to corrugate the Stomach, and to amplex the ingested Victuals firmly and strictly. Both the fore mentioned Tunics late Authors have improperly named the Crufta Carnofa. The third I call the Tonica Fungofa, confifting of a laxe spongy flesh, ferving to give an ample space and passage for a large proportion of Arterial Blood, from whose præsence and præterflux in its Circulation, the Stomach doth receive a sufficient heat to dissolve, concost, and elaborate its contents into a Chyle. Another great use is, that it is subservient in the nature of a concoctory, where the crude Blood circulating is to be Digested or Concotted into a sweeter and aqual Mais; fo that you must make this Annotation, that it is here the grofs, and phlegmatic crude Blood doth fo frequently fragnate; whence that pelanture and load at the Stomach, which the Sick do to commonly make complaint of in most distempers, is occasioned, and not from crude viscous Humours in the capacity of the Stomach, which Physicians, with the Ignorant vulgar, term a Cake of fleam; for were this a truth , a detergent Aloetic Laxative would at once fcour the Stomach, and disburden it of those weighty Humours, or at least a Gallard Vomit cannot be supposed to fail in that Indication; but on the contrary we find, that in many Cafes fcarce a score of proper Purgers, or half that number of Emetics will accomplish the defign; however this

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this is not to be apprehended so strictly, but that some crude Humours may float, or through their tenacity adhere to the sides of the Stomach, and may be as conveniently removed thence by a detergent Laxative. It is in this Tunic where many Distempers take their root, which generally proves of so dissicult an eradication; but be not so it, as to erre with the gross of Physicians, in imagining, that it is those thick mucilaginous humours, penetrating through the Tunica Mucosa and Nervosa, do lodge in the Tunica sungosa, and constitute the Cause of those durable pesantures of the Stomach; for the said Humors are nothing near proportioned in subtilty to pass through the thick and compact todies of the forementioned Membranes. The sourth Tunic is the common Tunic, derived from the Printeneum.

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5 2. This sufficeth to inform you, that in a commencing Stomachic Scorvey nothing is more property indicated, than an Alestic Ecceptatic prepared, as both been proposed before, and repeated once, or twice, and sometimes thrice a Week, and in the interval days a Detergent and Antiscorbutic decodion. Thus I have cured several with shele following prescriptions, being sometimes a little varied to answer their several Temperaments, Ages, and other Circumstances.

Rc. Aloes nost. prap. 3 fi. cort. Winteran. Nitr. Tartarisat. an. 3 fa. Syr. ros. sol. q. s. N. s. Mass. Pil.

Equavis 3a. formentur Pil. No. ix. & desarentur, capiat Pil. iv. vepp. sub ingress, in lest. & Pil. v. sequent.

v. sequent. aurora, superbibendo bauft. liquor fe-

R. Fol. Cochlear. bort. M iv.

Fol. Becabung. M ii.

Sum. Absynth. vulg. Pi.

Flor. Centaur. 3 i fs. Cort. Aurant. 9 ii.

Infund. in Aq. Coch!.

Vin. alb. an. ib i.

Expressio reponatur in ampul. vitr. sumat. 3 iv. to per diem horis Medicis.

5 3. From the clogging and burden of the Tuniea fungofa we are to desume this Indication, that a fafe and well præpared Antimonial Vomit is particularly pointed at, which through its most subtil Sulphur doth penetrate in a very short space through the whole Body and every part of it, dissolve the most renacious Humours, and by stimulating the Nervous Tunic of the Stomach doth diflodge, and throw off those obstinate adharents; and among those numerous præparations, I could never yet find any more fafe and effectual, than my Antimos. Resuscitat. the process whereof is described in my Great Venus. But where a Vomit is counter-indicated by the unaprness and difficulty of evacuating that way, take your refuge to Gum Cathartics, which used for Eight, Ten, or Fourteen days, oft do wonders. The following Mass of Pills in cases of this nature I have several times præscribed, with a success suitable to the Excellency of its Ingredients.

Br. Aloes Succotra

Gum. Ammon. an. 3 H.

Solvantur in tinetur. gentian. q. s. instillat. Spir. Vitriol. philos. gut. XX. Jolutio coletur & evaporad mellagin, addendo deinceps.

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Spec. Diasen. 3 iii.
Sal. Ebalyb. nostr. 3 ii.
Nitri. Tartar. 3 i. ss.
Bezoard. Jovial. 3 ii ss.
Ol. Succin. gut. xv.
Elix. Proprietat. q. s.
M. f. Mass. Pilul.
Dos. a 3 i. ad 3 i.

6 4. Since of Scorbutic Diftempers, longer Courses than of a Fortnight or three Weeks, do not only occasion a Fatigue, but a weakness also to the Stomach, a confortative Electuary ought to be made use of for six or seven days, and then return to a repetition of the foregoing Course; for Chronical Diseases, especially Scorbutics, proving very obstitute, require fræquent reiterations of Medicines.

A Confortative Stomachic Electuary.

R. Conserv. Anth. Salv.
Absynth. pont. an 3 i.
Pulv. Stom. ex aron. Quercet. 3 i.
Zedoar. Cort. Winter. an. 3 ss.
Elix. Proprietat. gut. xxxx.
Syr. cort. citr. q. s.
M. f. Elect.

Capiat quotidie ad magnitud. castan. duabus horis ante pastum.

§ 3. An Hepatic Scorvey is vigorously oppugned by these two specificks; Aparine, and Chelidonium minus. Most cooling vulnerary Vegetables do also very much conduce to the Cure of this Distemper; hereunto add Agrimony and Lapathum acutum.

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CHAP. XXVI.

Of the External Cure of the Mouth-Scorvey.

By what means to all against the Internal 100t of an Acid Scorvey, hath been formerly declared; how to rescind this Branch, the Month-Scorvey, by extrinsic Remedies, is the purport of this Paragraph. The correcting and subding the purid acour of the Blood, appelling to the Inward parts of the Mouth, and there occasioning a Vacillation of the Teeth, painful, spongy, tumesed and discoloured Gums, I have more than once proved successful in, by this following Liquor.

R. Fol. Cochlear. M viil. Fol. Salv. P. iii.

Post contus. in mort. marm. exprimatur succus, in q. dissolv. Alum. rup. 3 i. Colcoth. Vitriol. 3 ii. reponatur in vesic. Suil. quæ strict. clausa suspendatur in aq. donec Alum. & Vitr. suerint penitus solut. dein destil. è cueurb. bumil. in aren. residentia denuo suspend. in vesic. & repetatur destil.

Lintes præscripto Liquore imbuto confricentur gingivæ bis vel ter per diem.

This Liniment in some manner doth imitate the Virtues of the former.

R. Fol. Salv fic. pulv. 3 i. Rad. Tormentil. pulv. 3 ii.

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Flor. fal. armon. chalyb. 3 fs.
Balauft. pulv. 9 i.
Mel. Crud. q. s.
M. f. Liniment.
Quo spius inung. gingivæ.

§ 3. If by reason of a greater Acrimony and Putresaction of Humours the Gums grow Ulcerous, nothing scems parallel to this Colution.

R. Lixiv. calc. viv. 3 iv.

Tinet. gum. Lac. 3 i. ss.

Elix. proprietat. 3 ss.

Alum. Uft. 9 ii.

Colcoth. vitriol. 9 i.

Mel. ros. 3 i.

M. f. Collut. oris.

Qua sapius gingiva madesant.

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CHAP. XXVII.

Of the External Cure of the Leg-Scorvey.

5 1. DEpascent and Dysepulotic Ulcers are those obstinate Symptoms, that require a particular regard, against which my Lapis Salutis hash been experienced to be very pravalent.

R. Vitriol. Rom. 3 iv. Cerus. Litharg. Arg.

Virgiol.

Vitriol. Mart. an. 3 ii. Virid. æris. 3 i.

Coq. in Acet. acr. ad supereminentiam duorum digit. semper agitando, donec acquirant conssent. luti, addita Bol. Armen. Z. i. coq. ad duritiem lapidis. Hujus particula solvatur in Vin. rub. adstring. q. s. quo lotis ulceribus applicentur iisdem plumaceoli eo madefacti.

§ 2. In case the Ulcers be very foul, the following Liniment may serve for an excellent Deterger.

R. Ol. Jovis Mercur. 3 i. Mel. Rosat. 3 vi. M. f. Liniment.

§ 3. Scorbutic ulcers of the Legs, though exquifitely deterged and incarned to the Surface, nevertheless prove Dysipulotic, or difficult to be acatrized by common Epulotics, whose defect is oft wondersu'ly supplied by the amalgamation of Lead, being subtilly pulverized, lævigated, and inspersed pretty thick on the said Ulcers, and covered with unarm'd plegets, or dry Lint.

In conclusion of this Chapter, I shall only infer this caveat, to forbear using any kind of Unctuous greasie Medicines, be they Emplasters, Unguents, Liniments, or Oyls, they being all of a putrefactive

niture, especially in this fort of Ulcers.

do not require any particular applications, fince they usually vanish with the rest of the internal symptoms, upon a due course of Medicines.

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CHAP. XXVIII.

Of Cordials.

I. THe Vital Faculty being commonly very languid in Scorbutic Distempers, indicates Cordial Refectives , and Analeptic Corroboratives. The former are chosen out of fragrant and spirituous Vegetables, viz. Flor. Borrag. Buglos, Rof. Viol. Calendul. Summit. Melif. Ceras. Nigr. Mala Citrea, Serpil. Citrat. Menth. and Flor. Aurant. which latter in Vertue, Efficacy and Propriety, is a Specific Cordial in most Hypocondriac Maladies, by far exceeding all the fore-mentioned; and therefore cannot but wonder, that Physicians have of of late years eftranged themselves from the use of it: But in this as in many others I find fome to be very mutable; fometimes Acids, and Coolers are to be præscribed in Fevors, otherwhiles they esteem them perpicious, and hot Volatils are only to be recommended; and so the like instability of Pradice may be observed in several other Distempers ; what principle this flows from, you may eafily conjecture. To these may be added the less heating Aromatics, as Mace, Nutmegs, Cinamon, &c. like-wife Wine, some vinous Composites, and some Alexipharmacs.

5 2. Out of these several Compositions, may be prasseribed this following, which hath been experienced not to be unpleasant, nor ineffectual.

R. Aq. stillat. ceras. nigr. tot. citr.

Serpil. citr. aurant. an. 3 i ss.

Aq. Cinam. tenuior.

Vita Matth. an. 3 i.

Suc. Kerm. 3 i.

vel Consect. Alkerm. 9 iv.

Syr. Melis. 3 i. ss.

Spir. Menth. 3 i.

M. f. Jul.

Capiat cochl. ii. vel iii.

wygente languore.

The Citron and Limon Thyme water I suppose to be Distilled upon a pravious digestion with half water and half small French wine. Aq. Mirabil. I seldom make use of, because it's a Water very unpleasant, and confisting of disproportioned Ingredients. You must manage your Election of the foresaid Cordish according to their proprieties against an Acid, of Lixivial Scorvey.

§ 3. The Analoptic Corroboratives are chiefly Broaths made of a Cock, Chicken, or Veal, with the addition of Barley, or a Crust of Bread, Cordial Flowers, and a small proportion of Mace.

CHAP.

CHAP. XXIX.

The Cures of a Scorbutic Atrophy, of the Gout, and of Convulsions.

A Scorbutic Atrophy is remedied by reduting the Blood to it's natural temperament, whereby its rendred Nutritious, and apt to repair the diffipated parts.

Goats Milk, wherein Antiforbutics have been boil'd, is univerfally received for a great Remedy

this Cafe.

Likewise this following in a Lixivial Atrophy.

R. Rad. Confolid. 3 i.

Fol. bepat. stellat. Miv.

Fol. Chelidon. min. Mii.

Ligust. Mi.

Flor. Borrag. Pii.

Decoct. limac. vit. & ped. vervec. To iii. post digest. quatuor borar. destil. è cucurb. vitr. bumil. in cinerib. de quo capiat 3 iv. ter per diem scilicet bora 8. 11. & 4. pomeridiana.

§ 2. Against Scorbutic arthritic vagous pains, I find nothing equal to my Tinstura Chalyba, and Tinstur. Antimonii Fulva, either or both being in proper Vehicles, exhibited for 14, or 21, days.

proper Vehicles, exhibited for 14, or 21. days.

This Observation I affirm is universal in this Climat, that all or most Arthritic pains both Vagous and Fixt are either Scorbutic or Venereal, that is depending on a Venereal impression or Tincture, which some former Malignant insection (though cu-

red

red 10 or 20 years past) hath lest; for all Varoloms diseases leave a stain or impression on the parts, which is as little deleble as the mark of a Blast, or a cisatrix of a Malignant Ulcer; for this reason these sorts of Gouts shall never be Curable, or indeed scarce palliable without Antiscorbutic or Antivenereal Specifics, or both mixt with Arthritic Medicines. Scorbutic Arthritic sixt pains I have off removed by my Spir. Arthritic. extracted from the Sulphur of several Minerals. For an Anodine and Palliarive Topic, against the said Joynt torments, I only apply a Cinnaber Emplaster, but not that recommended in my Great Venus.

§ 3. Some Scorbutic Convultions this following Elixir doth vigoroufly oppugnate.

B. Elix. præon. præp. cum Spir. acid: Succin. 3 is.
Sal Antimon. nostr. 3 ii.
M.

Capiat. gut XX. vel XXX. ter vel quater per diem in

The Antispasmodics contained in the London Dispensatory, are chiefly these; Ungula alcis, cranium humanum, viscum querc. Aq. Ceras. nigr. Lilier. convall. Flor. tiliæ, paralys. rutæ, Aq. Pæsniæ compos. Spir. lavendulæ compos. Spir. & tinet. castorei. Spir. Lumbricor. Spir. Angelic. Aq. Petast. compos. Syr. infus. Flor. pæon. item syr. Pæon. compos. Syr. de beton. cempos. likewise Ol. Succin. Spir. C. c. & Ol. Guaiac.

I have known two ounces of Aq. Gentian. compos. to do wonders, in suddenly removing Convulsion

fits in Men and Women.

The most proper form for Exhibition of the forementioned Specifics against Convulsions is a Julep præscribed in this or the like manner.

B. Ag.

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R. Aq. flor. til. rut. ceras. nigr. an. 3 i. Aq. Pæon. comp. 3 i ss.

Tinet. Caftor. 3 i.

Rad. Pæon. p.

cafter. p.

Ungul. alc. raf. an 9 fs.

Syr. Pæon. comp. 3 i.

Ol. Succin. rect. gut. x.

M. f. Jul.

capiat. part. med. ante paroxysm. Convuisiv. & alteram post parox.

For a Topic nothing is comparable to Balfamum

In some Scorbutic Convulsions an Electuary may expreper to prævent the Paroxysms, because it's or so soon digested, but remains a good while in the Stomach to disperse its Vertues to the parts askided.

R. Conferv. Flor. Paon. m.

Paralyf. anth. an 3 i.

Rad. acor. condit.

Nuc. Mofcat. cond. an. 3 fs.

Confect. Mithridat. 3 i fs.

Rad. Poon. pulv.

caftor. pulv.

Ungul. alc. raf. an. 3 fs.

Syr. de Pæon. comp. q. s.

Ol. Succin, rectif. gut. xv.

M. f. Elect.

Capiat ad magnit. castan. duabus boris ante cibum.

CHAP. XXX.

Of Malignant Fevors, and Small Pox.

§ 2. The Malignity that so oft is Concomirmed and Supervenient to continual Feven, and conftantly almost Reigning in and about Londan, in seems chiefly to derive its Original from the ill temperature of the Air, which as hath been declared, to is Salin and Scorbutic. That this is the principal of Procatarctic, is evident from these two Reason: in the use of all the other Non-naturals, are subject to the control of the c the use of all the other Non-naturals, are subject to all be surprised by the same malignant Fevor, which is consequently must then solely be derived from the Air, that only of all the Non-naturals being the same, and common to all. 2. Because many of those that have the missfortune to fall Sick of a Malignant street in their Diæt, Motion, and Resting, Sleeping and their Diæt, Motion, and Resting, Sleeping and waking, Excretions and Retentions, and Passion of the mind; so that it must be the Air only, the constitution of the mind; so that it must be the Air only, the constitution of the English Bodies when incident into Fevor in some other Climates, are not afflicted with those malignant Symptoms. The causality through which as Salin Air produceth such malignant special effects, is by disposing the Body to engender great measures of gross Fuliginous and very Acrimonious steems which by reason of the constitution of the External pores, and of other Internal obstructions are repelled, and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into the whole current of the united and incorporated into led, and incorporated into the whole current of the but Blood, all

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Blood , kindle and inflame its Bituminous pares. shole flames are thereby rendred malignant and renomous to the Spirits, which then prove the imnediate Cause of those malignant Symptoms. 2. By his means the Blood foon becomes Lixivially Salin. aponary, and runs into a gross deliquious Oyl, as painly appears, when occasionally tapt out by Phle-Now the great difficulty of reducing this otomy. and actions faponary Blood to its former qualification. and actions laponary Blood to its former qualification, and freeing it from that gross Salin and Acrimonism, as Fuligo, is the Cause, that renders Malignant in fivors so indomitable, and extremely pernicious. In this Hypothesis, which your strict Scrutiny and possession in Practice will abundantly confirm, it is to Deleterious the ordinary method of Curing the in the Fevers, and how contrary those hot Cordials to thibited by spoonfuls prove, is easily discovered; ich in instead of moving Nature to sweat by an Incidite, Attenuating, and Volatilizing quality, and by me, importizing the Lixivial Salts, they render the said of, lits more Lixivial and absorbing, and consequently art is pose the Body not towards, but against Sweating. in Neither are the times or seasons observed for exhi-nal ling of medicines, that are accordingly to be va-ous sed in quantity, quality, and other circumstances; a the entin directory of all which can never be attain'd proved Notion of Firmentation, which hath been be teccasion of posting hundreds to the jaws of Orich w. What measures ought to be taken in point of the management and Cure of this Distemper, I have alres ready proposed in my Tractatus theoret. & Pract. de htifebril Elixir, confisting of ingredients of a mixt de mure; and in Spir. cornu cervi præpered in a peod aliar manner.

\$ 2. The Small Pox being in some kind not up like the foregoing Diftemper, I will only give my Sentiment, with Directions relating to the Cure, and then take leave. I cannot give Credit to the reto those virulent Pustles: this among the rest is certainly a Deliramentum Antiquitatis; for considering that in Guinee, most parts of Africa, and a most throughout whole Asia, the Marinea, and a the strangers are the strangers are never surprized with the Sand B Pox, though their Impurities contracted in the Womb (if any after many years interval) cannot be supposed less than ours, we must conclude, that it is rather an Endemic Disease peculiar to the Northern of the Nature of man, arriving out of the Microcosm of this mother into the Macrocosm, impressed by the rudeness and difference of temperature of the Ar is of Northern Climes from his primogenial Temperature, which needs no other Confirmation, than the Instance of those Guineans, Indians, and other, who soon upon their arrival into those Climes are attaqued by the Small Pox, which I can term not alting but a Scasoning, in like manner, as Northern Bodies are seasoned with other Diseases of the Climes Bodies are seasoned with other Diseases of the Cli II E mate, that transport themselves to Virginia, Barbe do a dos, or other parts of the West or East Indies. The Wal fome undergo this feafoning of the Small Pox, food letter after they are crept out of the fhell , others when lefe they are grown up to riper years; and some not sac at all, being prævented by some mortal Distemper, use is occasioned, through the strength of Nature, some kis Bodies are indued with above others , (that under prin go the fore-mentioned feafoning foon after ther or the Birth) dent

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whereby they are rendred capable to refift

the alterative impressions of the Air.

Since then it is fo obvious, that the Air is the f- miscipal external Efficient, you must necessarily pprehend, that where the Air is Salin and Scorbustequently mortal, and that, by reason the Blood tecomes Lixivial, Saponary, and Absorbing, which bidifpose to a Diapharesis, or Breathing, by those or, inflaming Cordials, is in some as impossible, as to sorce water out of a Fline; but on the contrary, as fessits of the Humors being rendred more Lixivial and Absorbing by them, they do not only through ty up the Serum of the Blood, but concentrate and wract, or draw in from the circumference those of platil suliginous Salts engendred in the Air, which the therwise Nature is striving to cast forth; and hence in the that old Women and Nurses by giving only inge measures of plain moistening poster Ale, very mall Ale boyld, or thin Fig-drink, prove infinitely to more successful, than many if not most of Physicims: But now I must tell you also, that some Pra-Ricers, taking their measures from the event the management of Old Women doth procure, and the il Exit that attends the advice of other Physicians, babandon all those hot aduring Species, and diffill'd Waters, and præscribe temperate moistening Dlaphoted Decoctions, and distilled Waters, whereby they deserve the Character of safe Physicians, scarce mein a very great Number stoopingto the Conks hurtful præscriptions. In fine, there are no principles, either those of Dogmatic putresaction, i) dently expound the causality and reason of all those 1.3

Symptoms and Changes, that so ordinarlly happen in the Small Pox, and Measels, than the Hypothesis I have proposed; and what concerns the Practical Indications, they are such, that in Success and happy Event, I am consident exceed all others.

§ 3. The Alexiterial simples are Rad. scorzonei. bish. Vincetox. fol. Galeg. Scabios. flor. Calend. sem. Aquileg. frust. caric. (in case of a Loosness or Vomiting Rad. Bistort. and Tormentil.) aq. Card. Bin. Scabios. Malv. the Composites are Aq. Scord. compos. Diascord. not that of Fracast. as it is set down in the London Pharmacopæa with the addition of Pepper, Ginger, Cinamon, &c. which must necessarily be very pernicious in this Distemper, Spec. e chil. cancr. Diamarg. frig. Cardiac. Magistral. and such like.

The Dicoll. Link though commended almost in every Author, I am certain is not agreeable to the Distenper in our Climat. Spir. Corn. Cerv. particularly prepared, and Elix. Antistbril. are aqual to any of the sorementioned.

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APPENDIX

TO THE

SMALL-POX.

Hat Hogs, Swine, Pigs, Hens, Chickens, Turkeys, Dogs, and perhaps many other Creatures are subof to the Small Pox (the former to the Meazels ho) and oft times more than once, has been alives, by the perception of those Creatures being sefted with red Pustles (though not very many) hat in a short interval are dried up into some scabs: True it is, they are not apt to leave marks, or cicarices (as we call them) for two reasons. 1. Because their blood being glutinous, and sweet, is the better disposed to be agglutinated, and to incarn those linle cavities, which the lodging of the purulent matter, whereinto those pustles are converted, may have occasioned. 2. Their skin being covered with hair, or feathers, hinders the external or ambient ir from drying, condensing, and hardning those little ulcers and cicatrixes, through its nitrous coldsefs, before they are fully incarn'd and filled up ; which is also the reason, why the body being kept warm in bed by Coverlets from the air, is less deformed with Pirs, than the face; add hereunto, that by the foresaid warmth, the Pores being kept

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open, a great part of the purulent matter is diffoled or discussed, which also happeneth in those forementioned Animals, by reason of the Warmth, occassoned by their hairy and seathered Coats, and therefore have sewer and smaller Scabs.

- 6 2. This pramifed is only adduced; first, to give you the reason of the Derivation of the Names of Swine, Chicken or Hen-Pox, wherewith Children or Boys are molested, resembling those forementioned in most circumstances, and are Re vera Small-Pox, though generally not fo malignant. Secondly, to corroborate my former affertion, that the cause of Small-Pox, is no way to be attributed to any particular impurity, the Fatus doth attract in the Womb; for (to argue a Simili) can any impurity be supposed to derive to the Chicken from the Egg? Certainly, not the leaft, nothing being fweeter and more pure, than the Contents of an What impurity can there be imagined in a found Chicken, a fucking Pig, or a well conflitured Infant? So that consequently, what doth generally surprize, once at least in the Life-time, all well or ill conflituted bodies, must be derived from the external air.
 - 5 3. Moreover, if some particular impurity of the Womb (but what fort of impurity it may be, they know no more, than that it is occuli) be the Original of the Small Pox (of the Venereal I grant it) Why are not the Indians subjected to that Distemper, whose Mothers Womb using so promiscuous a commerce with many men, is much more impure, than of the Women in these Northern Climes, and yet never any Indian in his own Country was taken with the Small Pox? I confess, were I to broach a Position.

Polition, partaking of far less improbability, I should rather choose to affert, that the Small-Pox was an hæreditary Disease, derived from both Parents, who generally, as I faid before, once in their Life-time, are attacqued with it; so that if some of the Levain (in the the Neotericks Phrase) of the Small-Pox be remaining in their Bodies, that might is well be propagated to their Issue, as that of the Stone, Gout, &c. Neither can this be conceded. in regard that those Diseases, which are actually termed hæreditary, are not conftantly conveyed by the Parents to all their Children; for it hath been observed in some, though both Parents have been afflicted with the Stone, yet all their Children have been exempted from it; and what is more, I have known a Child hail and found, that afterwards grew up to years, conceived and begotten from Parents in that juncture, when both had most violent Gonotheas running upon them. So careful and industrious is Nature, in preserving the Species, beyond the individuum. Wherefore if the Womb be so powerful and fedulous, in depurating the Seed, and attracting all its impurities to it felf; also in transmitting no Juices or Humors to the Conception and Fatus, whose impurities are not separated and retained by the Womb (whence also it happens, Women are generally fo fick and indisposed, during a great part of their Child-bearing) who, besides a dull ignorant, can believe the Small-Pox, to take is fource from any impurity of the Womb?

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\$ 4. Possibly you will object, that some Children have been observed, brought into the World with the Small-Pox upon them, and consequently, that they had it in their Mothers Wom's. I answer, this is false, but on the contrary, many Children

have been born clear and unblemisht of the Small-Pox, whose Mothers were surprized with it in the time of their breeding. Now certainly, if a Child at any time be subject to acrimonious Diseases, arifing from the impurity of the Womb, it could never escape them in the Case fore mentioned.

- § 5. That the Small-Pox and Meazels, are only Seasonings of the Northern Air, and a Disease meerby adventitious, caused by the admission of saline acid, and most acrimonious Effluvia's or Corpuscles into the body, through the Pores and inspiration, is further proved by this instance; those that go hence to the East or West-Indies, and continue there all their Life-time, were never known to have laboured under the Small Pox. On the contrary, all those Natives (as I said before) that are transported from Guiny, or the Indies into these Northern Tracts, after some continuance, most feldom or never do escape the Mezzels or Small-Pox. Thus I remember between thirty and forty years fince, I faw at the Hague, fixteen or eighten Brazitians, which Grave Maurits, having been employed General of an Army in Brazil, by the West-India Company of Amsterdam, brought thence, who all died of the Small-Pox some sew weeks after their Arrival. I will infift no further on that point, but pass over to some other remarks.
- 6 6. The Small Pox sometimes proves a Sporadick, and o her times an Epidemick Discase; the latter, especially in the Spring and Autumn, because at those Seasons, the Saline Particles in the Air, and the other Efluvia and Corpuscles therein contained, chinge their Position and Figure, (by reason of the Suns motion into the Equinc dial Sign) which entring

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the Pores, cause an Ebullition in the Humors and Juices, through the opposition of the Figures of their Parcicles. Also the change of Air, of the Weather and likewise of Diæt, by altering the temperament of the Humors, and changing the Figure of their Parcicles, thereby exerting an Effervescency or Ebullition of the Blood, and other Juices, is apt in some to protrude the Small-Pox and Meazels.

- 5 7. The words Pox (Pock) and Meazels (Maarm) are Saxon, the former fignifying a Pimple or Pustle; the latter red, Mother or Womb Spots (whence the French call them Rougeolle, and the Italians Rouiglione) and might be more properly applied to red Spots, which some Children bring into the world with them, or to the Red-Gum, being red Spots with roughness of the Skin, which most Children are subject to soon after they are born, and irenot unlike those which are vulgarly termed Meazels. But its to be wondered, that this Red-Gum is not rather afferted by Physicians, to be occasioned from some impurity in the Womb, since it buds out fo foon after their Birth; however, that cannot, be supposed to be the cause thereof, since men, upon impure Diæt, or going out into tharp Winds, are of times troubled therewith, and in them, is called. Papulerubentes.
- § 8. From the degree of malignity inhærent in the forementioned Saline aereal Efflavium's or minimal Corpufcles, and the degree of the ill disposion and temperament of the Bowels, Juices and Humours of the Patient, that is surplized by the Smill Pox, Measures of the Differences, and Prognosticks of the said Divesse are to be taken; for apposing those Salin Effaviums to be less acrimoni-

ous or corroding, less opposite to the Constitution and Crafis of the Bowels and Humours, and the faid Bowels not to be much intemper'd, nor oppressed with aboundance of viriated Humours, in this case the efferyency and Ebullition of the Blood must necessarily be very mild, and the Small Pox or Meazels very benign. On the other hand, when the Air shall abound with very corroding Salin Particles. that are extreamly opposite to the Crasis or temperament of the principal Parts, and of the Humours and Julces, that float through their Channels, adding hereunto, that the Patient is of an ill habit of body, κακόσπλα [χνΘ, and deep loaden with a Mass of vitious and putrid Humours; these circumstances do constitute a Scheme, that portends the highest malignity of the Small-Pox and Meazels.certain Death, and all attempts of Cure or Relief utterly fruftraneous.

§ 9. These two foregoing Suppositions expresfing the two Points, or extream degrees, within which the Small-Pox and Meazels do move, viz. of the greatest Benignity, and the worst Malignity, you are to calculate the intermediate degrees (whence also you are to frame your Prognosticks) from the nearness to the former, and the remoteness from the latter; so that if a man of a good habit of Body, having been temperate in the use of the fix Nonnaturals, should in the Spring-time fall ill of the Small-Pox, granting the air not to be replenisht with Salts very corroding or acid, we may naturally infer, that the Small-Pox cannot but prove benign on him, though not so bealgn as on a Youthor Child, that is likewise supposed to be under the same circumstances. Moreover, state the Air to be charged with very corroding venene Particles, th

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as this last Winter it was experienced to be. though the Pox should happen to a man that's young, robuft, and of found Bowels and Humours, if the faid Effluvia's, fhould in great proportions be admitted within his body, the Differnper must neceffarily prove very malignant, and oft times morrallas at the forementioned feafon)unless it should attack an unfeafoned body, by immission of small measures only of the said Salin particles, and then the Diftemper might appear mild and benign. Thus I have known a young Gentleman in the hardest of the preceding Winter, and when the Small-Pox was discerned to move to a high point of Malignity, to go abroad with the Small Pox upon him, until being fent for, I advised him immediately to his Bed, where he passed through the Distemper without the least fign of danger.

6 10. The Small-Pox is either malignant per fe, or per accidens: And because this diffinction is of great importance, the passing it by superficially, might justly be censured a neglect. The meaning of the first branch is already declared, and afferted to be chiefly derived from the extream subtil corrofive, or venenous quality of the Salin Corpufcles, floating in the ambient Air, exerting their malign Operation on our bodies, in proportion to the degree of pravity of disposition of Humours and Juices therein contained. Thus I have known the Small Pox. fo malignant per fe, in a Boy of seven or eight years of age, that besides a continual Delirium, were attendant a bloody Urine, a most putrid sœtid looseness, the Pox hard, stubborn, and blackish deep red, turning to a livid, intersperft with black Meazels, or Exanthemata nigra, like those which in the Plague are called Tokens, though they were not absolute.

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absolutely Tokens, in regard this Distemper was not universally contagious, excepting to those that never had passed the Small Pox; besides, there was a little asperity in the midst of those small round black Spots, and therefore ought to be termed black Meazels. Moreover, his Pulse was very languid, low, unequal in motion and strength, sometime very quick, other times slow, a great asperity of the throat, and many other pernicious Symptoms.

§ 11. The Small-Pox are too frequently malignant per accidens, either through irregularity of the Patient, neglect of the Nurie, or error in the Physician, which latter is not uncommon, and therefore it's no wonder, the good Women do so

oft exclaim against tampering.

The error committed by the Physician, is either in Fleeding, Purging, stopping the Pores, (by cocling the Air, through taking off Coverlets, drawing back the Courtins, setting open the Chamber-doores or Windows, removing the Fire from the Hearth) in giving Hypnoticks or sleeping Medicines, in prescribing cooling Acid Juleps; or on the other hand, by overheating Medicines under the notion of driving out, and Alexipharmacal Cordial Juleps, Powders, and Bolusses, and lessly, by the ill ordering of their Diat; of these, I shall hereafter particularly discourse.

§ 12 The Small Pox appears, either without any kind of Fever, or attended with a fimple or malignant Diary. a continual imputrid Fever, a continual purid Fever, or with a continual purid malignant Fever. The first fort of appearance, hap es sometimes in Boys or Children of a good healthy.

healthy Constitution, and found strong Bowels, without the least læsion of the functions of the parts; the Pox not many in number, though large, round, and florid, and cafily maturable; but then they are subject to several returns of them; upon the interval of two or three Seasons, and sometimes upon the distance of two, three, four, or five years. Moreover, after their being scaled off, they are disposed to thrust out Blotches, Boyls, Splatches, and other impure Eruptions, even sometimes before they are all scab'd. The Meazels come also under the same distinction, set down at the beginning of this Paragraph, and now and then are found aqually dangerous and lethiferous to malign Small-Pox. and are of the same nature and Origination with them, receiving their difference only from the different disposition of Humors and Juices.

- § 13. The Meazels are known by red Spors, like Flea-bites, having an asperity or a sharp little rough head in the middle, wherein they are distinguisht from Exanthemata rubra (retechia) in the Spotted Fever, which again are distinguisht from common heats, by the malignant Fever that attends them, viz. the Exanthemata. I am the more particular in this distinction, because M. stakes are frequently made by Dectors, though not Physicians; for there are many Doctors, but sew Physicians.
- § 14. You are likewise to remark, that the Small-Pox appear sometimes attended with Meazels, Splaches, (maculæ rubræ) and Boyls (Phymata) all together. Othertimes you have the Meazels præcurring, and the Small-Pox at the heels of them. In some, you have a high Fever, soon followed with the cruption of large red Splatches, (that by some

fome Doctors, hath been mistaken for a Scarlet-Fever) which, unless the Patient be ill treated by Bleeding, Glystering, and acid Juleps, are seconded with the Small-Pox.

6 14. Though the usual time of eruption of the Small-Pox and Meazels is the fourth day, yet they are observed in some to appear the first, second, third, fourth, fifth, fixth and seventh day. I had once a Patient, in whom the Meazels sprung out the one and twentieth day of her Fever, being at the end of its declination. The sooner the Small-Pox or Meazels break forth, being competently numerous, between foft and hard, eafily maturable and florid, the less danger they import. But the longer they continue hidden (especially when you can feel them under the Skin) it expresses the greater malignity and weakness of nature; if they prove hard, and confequently, of difficult maturation, their number commonly then is small, and fignifies a dangerous event; if they appear foft and low, tending to flatness, it's a fign they will strike in again; all other Colours, befides a florid red, are ill, though the Violet, Olive and Black are the worft. A violent Fever, Hæmorrage at the Nose, Faintings, Looseness, Vomitings, difficulty of Breathing, and Raving, before the Small-Pox or Meazels break forth, commonly cease, or at least, do very much abate upon a plentiful eruption of them; but if the forementioned Symptoms survene upon their eruption, or continue after the eruption, then the danger is far greater, and they threaten Death, as do also Convulsions, Startings and Tremblings; Drowfiness is not so dangerous in many, in some few it may.

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§ 16. In those that prove mortal, most dye between the ninth and fourteenth day, and fome have miscarried the fifteenth, seventeenth, and any other day on this fide twenty; for though after the fourteenth day is passed, seldom any danger is observed; yet many by neglect, irregularity and error, have been fnatcht from their Phyfician. Thus it has happened, that a young Lady, upon taking a Glyfter or two by advice, after the fourteenth day, and all danger of the Small-Pox were paffed, according to the judgment of the unskilful Phyfician, notwithstanding expired; the cause is this, though the Pox are all dried and scaled, yet those malign evaporations continue to transpire out of the Body through the Pores, for feven or eight days after, which being ftruck in by external Cold, or fhifting of Linnen, or drawn to the central parts by Glyfters or Purges, may eafily kill a Body already weakned and enervated by Sickness.

§ 17. The eleventh day hath been observed by Physicians, to be the most dangerous, at which time they will tell you, a new Fever ariseth (by others termed a second Fever) occasioned (as Willis afferts) by the stopping of the Pores through the Small Pox, which then commonly are at the height, and bring the Sick into the greatest extremity, wherein many dye. This, as to the danger is true, but its not to be believed to happen through the occlusion of the Pores; for many at that time are found to be in a breathing Sweat, and not perhaps, to have any great number of Small Pox, which cannot then be in any proportion to flop the Pores; so that there must be a truer reason given, which is, that the Small-Pox at the height, are chiefly on their maturation, that (as we may take notice in almost

most every little Boil) causeth pain and a Fever (which is symptomatick) according to the Aphorism of Hipp. 47. lib. 2. Dum pus consicitur dolores atque sebres incidunt, &c. The Spirits being intent upon the maturation of the Pustles, in the circumsterence and external parts, the internal and centrical parts are deprived of Spirits sufficient to throw out the malignant Salts to the Cutis; whereupon, through their extream acidity, necessarily happens a curdling or coagulation of the Humours within, especially about the Lungs, which causeth a difficulty of circulation, and consequently, a great difficulty of respiration, and thereupon suffocation and stagnation of the Blood.

The said malignant Salts, if moving to the Guts, occasion a Looseness; if to the Endneys, Bloody Urines; if to the Brain, a Delirium; if to the Dura Mater, a Hæmorrhage at the Nose; the Prognostick of which Symptoms hath been told you before.

\$ 18. The Small-Pox, that is concomitated with a fimple Diary (I mean a Diaria unius, or Plurium Dierum, as Authors do barbaroufly term it) implies no danger, but with a malign Diary, where the Urine and Pulse do so exactly resemble those of healthy Bodies, and yet malignant Symptoms are præsent, imports the greatest of Dangers.

The Small-Pox, with a continual imputrid Fever (which is most common) is not dangerous, though with a putrid Fever, or a malign Fever, threatens the worst of Events. Wherefore, to extract your curative indications, according to the true Methodus Medendi, you ought to discern strictly, what sort of

Fever attends the Small-Pox.

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6 10. My next Affair is to examine the errors committed by Physicians; and first, whether Bleeding in the Small Pox and Meazels before the gruption, be hurtful or advantagious. This doubt may easily be resolved, upon consideration of the effects of Bleeding, and the indication of the malign Miasms, that occasion the Small Pox. Bleeding doth together with the extraction of the Blood. diminish the Vital and Animal Spirits, and draweth the malign Salts, towards the Center and Bowels; whereas the foresaid Salts indicate expulsion towards the circumference, and the support, relief, and comforting of the vital and animal Spirits; fo consequently, nothing can be more pernicious than Phlebotomy. You may object, that Bleeding abates a Plethory, too violent Ebullition, Putrefaction, and Præternatural Heat, opens the Pores, ventilates the Blood, reserates Obstructions, de. all which the Fever in the Small Pox feems to indicate. I answer, that the chief curative Indication is to be defumed from the cause of a Discase, and therefore in an effential continual Fever, where, according to the Phrase of Galen, Plethory, Putrefaction, Obstructions, and Constipation of the Pores are the causes, bleeding is properly indicated; but in a Symptomatick Fever of the Small pox, whole cause is malign Salts, expulsion is indicated, and all Remedies that attract to the centrical parts, are counterindicated. Here may be replied, that it is very difficult to be discerned, whether the Fever, before the appearance of the Small-Pox, be effential, or Symptomatick; and consequently, if it should prove effential, the omission or delay of so great a Remedy, would prove a vast Detriment; besides, bleeding cannot be supposed to draw inwards, in fuch a Symptomatick Fever, before the Small Pox appear.

appear. To this is answered, that where the Small-Pox is epidemick, it is no more difficult, to distinguish a Symptomatick Fever from an effential than in the Plague, and who will rashly resolve to Bleeding in a peftilential Season, where the Patient is raken with a Fever? Moreover, where the Small-Pox is Sporadick, he that, befides the common Signs and rational Conjectures, makes use of his own Ob. fervations, cannot readily miftake; especially if he will take the pains to make an exact ferutiny. to the last part of the Reply, though Bleeding before the appearance of the Small-Pox, cannot fo properly be faid to draw in, yet it may retard and But I will make this further hinder their expusion. Objection to my felf, that a Hæmorrhage at the Nofe, doth for the most part give great relief, before the Small Pox breaks out, in removing the great Headach the Patient is afflicted with, and taking off fome part of the burthen from nature; whence, afterward the expulsions proves more easie, and the Sick commonly do well; if fo, Art being to imitate Nature, we ought to Bleed before the eruption of the Small Pox.

18 20. This Argument seemeth to carry some force, as the case is here stated; but suppose a Patient to be vehemently afflicted with the Headach, violent pulsation of the temporal Arteries, a great Heat all about his Head, a very high Colour, red Eyes, &c. if you bleed him in the Arm, you hinder nature in the Hæmorrhage at the Nose, and draw that sharp Salin Blood inwards; for you must not suppose, that by detracting blood out of the arm, you do take away that sharp volatilized Salin Blood in the Sinus's of the Crassa Meninx, which occasions those Symptoms in the Head, but you draw a

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way Blood that is not so sharp and inflamed, from the Vena Axillaris, the Subclavia, and consequently, from the Vena Cava, into whose room the soresaid Salin Blood succeeds, and therefore you must conclude, that Phlebotomy in the Arm, Neck or Feet is pernicious; if then in this case you propose to imitate Nature, nothing remains, but to procure a Hæmorrhage at the Nose, by gentle Errhines, Surnutatories, by irritating or pricking the Nostrils within, and even this would prove very suspicious, in regard a Hæmorrhage at the Nose, if it should happen to be violent, or to continue long, is not easily stopt in the Small-Pox; so that it's best to leave it to Nature, and not in any wise to advise Bleeding.

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§ 21. A third Objection, is (from Experience) that in France, Phlebotomy is commonly celebrated with success, and here in England, some have been blooded, who have escaped. In answer hereunto. you must consider the difference of the Climate, Bodies, fix Non-naturals; and benignity of the difcase, for in France, the Air is thinner, clearer and warmer, the Salin particles in the Air less malignant, their Bodies are more transpirable, their Humors not fo gross nor fibrous, their Plethory of Blood greater, their Food upon Bread and Wine plentifully increasing their Juices, all which, and other Circumstances, may among some, argue for indemnity for Bloodletting; and if the same experiment hath been used here in England without great detriment, it was in Bodies whom nothing could kill. After all, it may so happen among a very great number, that one having a Distemper complicated with a Fever before the eruption, wherein the omission of Bleeding may import an aqual or greater danger then the allowing of it, and

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then Phlebotomy must take place. The Quare may be further made, whether after eruption, bleeeding be not necessary in some cases, as where there is danger of suffocation or a great Hamorrhage at the Nose. constipation of the Pores, or a very high Fever! The frequent tryals of it on many, and those of the greatest quality, gives you a positive answer; and the question is much the same, whether Phlebotomy be not proper in a peftilential Fever, after the eruption of Buboes, Parotides, Tokens, (Exanthemata nigra?) and even here there is oft present danger of suffocation. Certainly, none but a mad man will admit the faid Remedy, though upon some, it has been practifed in the Plague, without the fatal confequence; but then it was on those, who (as the Puritan saith) were ordained for Life, or as I faid before, whom nothing could kill. As for the Suffocation, which is the common prætence for bleeding, its caused by the coagulation of the Blood, through the malign Salts in the Lung Vessels, which obstructing the Circulation, and Stopping the Pores of the whole Parenchyma, retains within all the Steems, Smoaks, and Fuligines, intercepts the fresh Air, that should ventilate the Blood, and loads the Lungs with an insupportable Weight, whereupon a total Stagnation, and confequently Death doth oft enfue, if it continues any time; now the prætext is, that bleeding doth make room for the coagulated Blood to circulate, ventilates ir, and opens the Pores of the Parenchyma of the Lungs; fo that commonly happens a fudden relief upon Bleeding, but of a short continuance, which past, the Suffocation returns with a far greater violence (the malign Sales being in a greater proportion drawn in by Bleeding, and the Spirits together with the Blood exhausted) hereupon stagnation of the Blood, and then Death. In fine, a Physician had better

better with a Beatle, knock his Patient on the head, then bleed him after the eruption, for the other is the quicker Remedy.

6 32. Since the thread of my Discourse hath led me to the Exposition of this dangerous Symprom, give me leave to annex another fort of Suffocation, which happeneth oft on a sudden, not only in the Small-Pox, but also in malignant Fevers. To the right understanding hereof, you must by Suffocation, apprehend the suppression of Respiration or Breathing. Respiration is performed by the Lungs, receiving, attracting, and expelling the Air. The reception and attraction of the Air, is called Inspiration (the Lungs being then expanded) the Expulsion Expiration, at which time they are complicated or contracted. The Heart by pullarion, throwing blood into the Lungs, is the principal moving Cause (Causa movens) of Respiration, the chief Instrument (as the ancients have obler ed) or rather the efficient Caule, is the Diaphragma or Midrif. The Lungs are properly the Infirument The Heart by its Syftole, throwing impetuously hot ebullient blood out of the left Ventricle, through the Arteria Pulmonalis, improperly called Vena Axteriofa, into the Lungs, which continuing on fills in and also keeps filled (for as fast as the Blood is emptied into the right Ventricle, by the Diastole, it is Supplied again out of the left by Syllole) the Parenchyma of the Lungs, through the Pores whereof. and of their ambient membrance (for that is largely porous alfo, as appears in a penetrating Wound of the Thorax or Breast, at whose Onfice wind will come forth, manifestly shewed, by holding a lighted Candle or Feather near it, which could not be, unless the Air that's attracted by infpi-

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inspiration, passed through the circumvestient mnic) a crowd of hor Salin volatil and fuliginous Steems, ricking out of the blood, and passing to the Diaphragm though the Pores of its Tunic, punge and vellicate its nervous Fibres to a contraction, from a convexe in the middle to a plain, though about the circumference, the Sides move upwards, whereby the Ribs are drawn upwards and dilated. The Lungs being like unto a Sucker in a Pump, is in the fame manner attracted or drawn by the Diaphragm, as a Sucker by the motion of the Handle of a Pump, and as the Water by adhasion follows the Sucker, fo doth the Air the Lungs, when expanded by the Subtraction of the Diaphragm, whereunto the Air it self seems also to contribute as naturally crowding into any cavity. This the manner of Inspiration. The Fibres of the Diaphragm being contracted, or rather, as it were, a little overcontracted, do by a rebound refult or back (at the latter end whereof they are claxt) like unto a Spring of Iron or Wier, which being by preffure contracted, upon the withdrawing of your hands, doth violently and swiftly rebound; in the same manner, a Bow being contracted by drawing the String, upon the letting it flip, violently rebounds. And therefore it is, that the Expiration, as any one may eafily observe in himself and other animals, is much stronger and quicker than the Inspiration; it being necessary it should be so, because the Air paturally crowding in, must be violently expelled. To this resulting or rebounding motion is much added, by the preffing down or natural gravity of the Bowels in the lowermost Venter, and the retorted motion of the Muscels of the Abdomen, that by the contraction, of the Diaphragm and the Diffention of the Ribs

the Intercostal Muscles were violently listed up in the Inspiration. How far this is a Natural Action, and how farAnimal and Spontaneous, or in Men voluntary, it's not material to inquire here; also whether the Heart of a Fætus in utero doth pulsate, since its Lungs do not respirate; or if it Pulsates (which is very dubious) in what manner the Blood soth circulate; or whether the Lungs of a new forn Child swimming in a Bason of Water, be not a sign it was born alive: These, and many other Doubts, I commend to Dr. Fætus at Paris.

This Illustration is only adduced to shew you, how various ways Suffocation is possible in the Small-Pox, or any other Distemper; viz. either by coagulating the Plood in the Lungs, or by being smothered by too great smoaks and steems, arising from the over-boyling Feverish Blood, or by the malignity falling upon the Diaphragm, or upon the Nerves that are inserted into the Diaphragm, or by the Small-Pox breaking out in the Lungs, and the Aspera arteria: Besides these, many other difficulties may be resolved, and made easie by the forementioned action of Respiration.

My next Quere is, Whether Purging be proper in the Small-Pox before eruption, supposing the Patient of an ill habit of Body and a soul Stomach, which if not evacuated in the beginning, and before the cruption, may render the Fever higher, and the Small-Pox more malignant.

Though Purging cannot be deemed to retract the Small-Pox, yet it may prove a diffurbance to Nature, whilft bufied in separating those malign Particles, and preparing them for eruption; therefore unless a great eacochymy should indicate Purgation by a gentle Cathartick or Laxative, it is more fafe to omit it, especially after the second or third day;

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and yet where Crudities about the Stomach and Guts are suspected, an emollient Glyster on the first or fecond day, may be advantageous. As for pureing after the Eruption, whilft the Blood continue still in a high Ebullition, nothing can be prasumed to raise it higher, to hinder Digestion, or to cause more forcible retraction of the malignity from the circumference to the Center, than purgation; and yet I have heard of those, who have been smartly purged by their Doctors, upon supposition that the Cacochymy hinder'd a more plentiful Eruption than what appeared, which Remedy may be one in ten hath furvived, who would have done much better. had a more proper Medicine been given; but m feme Doctors, because they are of the Faculty, Quidlibet audendi femper fuit aqua poteftas; though in other Countries they would be recompenced with a Banishment, or a Halter, should they thus triffe with Mensskins, and try Tricks and unaccountable Experiments upon Humane Bodies.

The malignity being to be thrown out to the circumference and external parts, the Pores of the Body are to be kept open by warmth and moderate heat, and therefore the Air in the Room of the Sick is to be repder'd warm, and the Patient covered with Blankets sufficient to keep open the Pores; though where the Fever is high, and the smoath and evaporations of the Body very thick, a temperature of Heat must be procured, by laying sewer Coverlets on the Bed, lest too many keepin those smoaths and evaporations, and so chook up the Pores: but we must not run to that extream of Madness, to draw back Curtains, open Windows and Chamber doors, where the fresh Air entring. Shall not only stop the Pores, but convey more ma-

lign Particles into the body.

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Whether Hypnoticks may be fafely given in the Small-Pox, before and after the Eruption, is a moot Point that deserves confideration; for on the one hand, granting that sometimes the animal and vital Spirits, through the violent commotion of the Humors and malign Particles, are so extreamly broken, dispersed, ruffled, and inflamed, that by being very much diffurbed and put by in their task, are rendred incapable of digefting the crude Humors, separating and expelling the Malignity, whence a delirium, want of fleep, anxieties, suffocative respiration, and sudden lapfe of strength do ensue; an Hypnotick prescribed with discretion, composes the too high Ebullition, quiets the Spirits, and gives them occasion to rally and reunite, whence afterwards they do more ordinately return to their office of digeftion. separation, and expulsion, and those fore-mentioned Symptoms oft immediatly abate or quite vanish. Befides, an Opiat judiciously given, seems to contain all the properties necessary in the case predict, viz. befides the quieting of the Spirits, and putting a truce to the Combat; it binds the belly, and prævents Hæmorrhages, Vomitings, and Loofnelles, and promotes Sweat, according to the common Saying of Physicians; Opium omnes evacuationes supprimit, prater Diaphoresin, which Virtues are oft very necessary in a Medicine, to prævent such Symptomes as prove commonly so mortal. the other hand, where Hypnoticks shall be exhibited rashly, immoderately, and aus Dodws, they must necessarily render the Spirits torpid, drown them. and wholly prævent them from Digestion, Separation and Expulsion, coagulate and cause a stagnation in the blood, tye up and concentrate the malign Particles, suppress Respiration, whence unavoidably must happen coagulation, and stagnation of the K 2 blood

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blood in the Lungs, and other parts, and thereupon death. Thus I remember at Paris, some few years paft, that one Physician killed another lying sick of the Small- Pox, in a benign Season, by large draught of raw small Beer, throwing off the Bed cloaths, coolin the Room, and giving him every day four Ounces of Diacedium, besides drops of Laudanum Liquidum at night; & this was continued fo long until the fick Do-Gorbeing rendred Lethargic, or Comatous, could speak no more sense but this, Doctor, Diacodium hath kill'd me, and I will take no more of it; afterwards the Scene was altered, fo that the Agent Doctor thought it his b. ft way, now to ply the Patient Doctor with drops of Volatile Spirits of Cranium humanum fix Months digefled, of Harts horn, and Sal Armonias, but to no purpose, for no remedy under Heavens was capable to fave him. So barbarous a Treatment in the Small Pox, I never heard before; and what was more furprizing, was the report, that the Agent Doctor never pelled by the House, where the dead Corner of the Patient Doctor lay, but blood would purge out ar his Nofe: a most remarkable Instance, as if the dead accused the living of his Blood. This Gentlemans death, if ever any, gives the most probable proof of Fare; for in his life time he expressed to me more than once, that the new killing method in the Small-Pox, of opening Curtains, Windows, and Doors of the Room, and giving cooling Julepsand Opium in fuch great Dofes, with a contimuando, was so unheard of cruel, that he wondered the Magistrate did not interpose their Authority. Moreover to confirm this, he did aver, that whilft he lodged in the Agent Doctors House, sometimes two Corps dead of the Small-Pox a Week, were carried thence to the Grave, on whom, as he called it, this Killing method was used; yet notwith-Standing,

flanding, that he should submit himself to the same Killing method under the same Doctor, resembled the sate of the Heathens, the most of any Example Fever met with.

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Hitherto I have infifted on the Errors of the new Improvers of Phyfick, it is convenient I should also make some Remarks on the old Galenical which chiefly indicates driving out, and Diaphoretic Alexipharmacal Medicines. And here is to be observed, there is scarce any men or remedy, but is apt to be over-done by a cer number of Physicians, who imagine, that the stron the Diaphoretic is, the more proper it is to the out the malignity; and to that purpose you have præscribed by several of 'em Juleps, I he feen in this proportion. To Aq. Dracunt. ulm 19 446 Card. Ben. or to any two of them, was added to epidem. the fame measure, Tinet. Croci a fixih Diafcord. Theriac. Lond. Theriac. Andr. Spec. . caner. comp. a good large quantity, with Syr. Garyon or Melis. comp. This to be given four or five fpoonfols every second, third, or fourth hour. This ne fucceeding (pro voto) there was to be drept every two hours, or fometimes every hour, Spir. Corn. Cery. 20 drops. Besides, a good strong Cordial Julep, wherein Aq. Stephani, Spir. Cinamon. bore a great part; every night a Bolus of Theriac. Andr. pulv. ferp. or Lapis Contrajerv. Lap. Bez. &c. from the force of these hot burning Medicines was expected, the Small-Pox should be thrown out plentifully, whereupon the high Burning Fever ought also (as they imagined) to remit; but instead of these great hopes, the Small-Pox broke out less, and many retracted. One Error sprung from the obstinate Opinion of such a Physician, begetting a greater; these hot scorching Cordials are to be increased in K 3 their

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their Dose to that height, until either the Patient was suffocated, fell into Convulsions, a Hæmorrhage, Syncope, or great Loofness, and so a Dios. This method succeeding so frequently ill with some Phyficians, put others upon using Alexipharmacks and Diaphoreticks, that were more temperate, which indeed in benign Small-Pox had a good event, and fo would have had, though the care had only been committed to the management of a good Nurse, under the use of the Harts-horn and Mary-gold Posset, or Fig-drink, the Saffron-stay, Water-grewel, or fops, and a warm Room. But where the I-Pox partaked of any great Malignity, this perare method brought no affiftance, for the Panotwithstanding dyed; yet as it did no great deftructive. Moreover, this Temperate Me-, where people know no better, is commend-; for by that leaving the work almost wholly to ature, many do escape, and so would many hunfireds more, were they not killed by Bleeding, Purging, acht faleps, Narcotics, Inflaming Cordials, &t. The state of the Blood foapy, lixivial and dry, inwate, embarais the Spirits, & lock up the malignity, infomuch, as I said before, that you might sooner force water out of a Flint, than the least Sweat out of such Patients; neither can you expect any digeftion, separation, or expulsion of malignity by such contrary Medicines. By Digeftion you are not to understand the digeftion of malign Particles (for they are indigestible) but of those Heterogeneous Humors, wherein they are enveloped, which being afterwards feparated and expelled, carry out the malignity with, them: fo that the Error above-mentioned, confifts in this depraved notion. That the malignity must be

expelled, before the Fever can be abated; whereas on the contrary, experience tells us, that the Fever must be remedied before there can be any sufficient expulsion: But by what means is this to be done? Not by acid Juleps, nor volatil Alcalies, nor inflaming Cordials, nor little infipid temperate Draughts: What then? I answer, by Medicines that digeft the Humors, and at the same time infringe or obtuse the malign Salts; this done, the separation and expulsion will follow of themselves. or at least the continuation of the same Remedies will promote them, and vigorously affift the Spirits in performing them. Since the common tribe of Medicines doth not contain any, that are endued with those requisite Vertues, some have endeavored to find it in Antimony, to which purpose they have oft exhibited it prapared, by calcinating it into fixt Powders, whereof the one's red, an others are white: The former is nothing but a Regulus, by admixture of some particular Ingredien fixt and calcined into a red weighty fuled Male and afterwards powdered and washed. The other the common Antimonium Disphereticum, and Bezoare dicum Minerale. Of the red Regulus, and the Antimenium Diaphoreticum, some have given from 20 to 60, and 80 grains, hoping by the great Dofe to do wonders. I confess, there is a great matter in Antimony, though I must also tell you, the Medicines prapared of it are the most uncertain in their Operation; for let them be never fo new and well prapared, I have oft known, that in the ninth or tenth Man, more or less, they have Vomited, or wrought violently by Stool; and of how dangerous a confequence that is, I have already shewed you: Therefore let me rather advise you, if you know no better Medicines, and will needs use them, never exceed 15

or 20 Grains of the one, and five or eight of the other, though you give them the oftner. But after all, these are not the Remedies that will do in many cales, 'neither have the gross of Physicians yet difcovered them; though for their encouragement to dive and fearch, I am very well affured, there are two or three Medicines that are exactly virtuated with those Requifices, and do not only serve in the Small-Pox, but all other Malignant and Peffilential Fevers. Supposing a violent Hamorrhage of the Nole furpriseth the Patient after Eruption, here may be demanded, what is to be done? If you exhibit a Narcotick, there is danger of Choaking; if an Ad-Aringent Medicine, you suppress the Eruption of the Malignity: If you continue in driving out the Malignity by Diaphoretick and Alexipharmacks, you Subtiliate the Mais of Blood much more, and fo increase the Hamorrhage: What then? There is but one Drug that ever I could hear of, which flops deeding powerfully, and promotes Transpiration; for Commit that also to your industrious Inquisition.

In the Conclusion, I am only to communicate this Remark, that in Bodies recovered of the Small-Pox, that hath been Malign, a putrefactive and corruptive Dreg is oft remaining (or ferment, as the vulgar stilles ir) which occasions either immediately foul Ulcers in the Legs, Face, Eyes or Nose, or some time after the Kings Evil, Joint Evil, a Pfora, Basslard Leprosie, and many other Distempers, which perhaps may not appear until some Years after; wherefore to prevent this, do not only Purge such Bodies well and oft with proper Catharticks, but advise them likewise to Traumatick Decottions, or Tinctures to be continued for 21 days, thereby so deputate their Humors, and prævent so great an Enders

tail of Difeafes as may enfue.

